4/8/16CH Triplex DVR

User Guide

INFORMATION MAY CHANGE WITHOUT NOTICE.

Digital Video Recorder

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Caution

- For your safety, unplugging the power before moving the DVR, installing, or replacing any parts or hard drive.
- Make sure all the power cable and wires are properly set up before using the DVR.
- To avoid a short circuit, don't leave any unnecessary parts inside the DVR.
- Please avoid dramatic changes of the environment, such as dust, temperature, and humidity. Keep the DVR in a temperature ranging from 5℃~40℃.
- Keep the DVR in a well-ventilated place and away from any heat-generating objects.
- Do not block the DVR's fan and vent.
- Do not expose this unit to the sun directly.
- If you are not sure of the installation and setup, please consult the technicians.
- Don't fix it yourself if there's any damage to this unit or the power supply, Consult the technician or the distributor.

Package Contents

- DVR Main unit x 1
- Power Adapter x 1
- AC Power Cord x 1
- Manual x 1
- Software CD x 1
- USB Mouse X1
- IR Remote Controller x 1

If there is any damage, shortage or inappropriate item in the package, please contact with your local dealer.

Introduction

1. Product Overview

- High quality pictures by digital recording with 4/8/16 video inputs (NTSC/PAL)
- Provides one VGA and S-video/video-in*2 for video output and two audio inputs
- Triplex operations : Recording / Playback / Remote Backup
- Two compressive modes: MJPEG (recording) / MPEG4(networking)
- Individual recording frame rate setting for each channel, from 1fps to real time
- Individual recording mode by Continuous, Schedule, Sensor/Motion Trigger that setting for each channel.
- Search Mode and Playback searching by Time or Event.
- One front accessible R/W DVD-ROM (or accommodated one removable hard drive) and one internal 3.5” hard drives (optional – IDE to SATA bridge) for 4/8CH DVR
- One front accessible R/W DVD-ROM / two internal 3.5” hard drives with IDE or SATA HDD interface or up to four internal 3.5” hard drives with SATA HDD interface for 16CH DVR
- Enhanced USB disk backup
- One network connection with 10/100 Ethernet(RJ-45)
- Network protocol by TCP/IP, Static IP, DHCP, PPPoE, DDNS(through Router)
- 3GPP support (SecuViewer)
- P/T/Z camera control by RS485
- Multi-Language support and Authentication setup function.
- PC Operating System: Windows XP/2000/Vista
- Remote monitoring, recording and playback by client program and IE browser
- Mouse / IR remote controller /Front panel keypad operation available
- Power adapter: Input AC100~240V, 50/60Hz and output is ..

Model \ Output	**4/8CH DVR**
Slim model/ IDE HDD	+12VDC / 4Amp
Slim model/SATA HDD	+12VDC / 4Amp
w/removable drive & IDE HDD	+12VDC / 5.0Amp
w/removable drive & SATA HDD	+12VDC / 5.0Amp

Model \ Output	**16CH DVR**
w/one DVD-RW & two internal HDD	+12VDC / 6.6Amp
w/four internal HDD (SATA)	+12VDC / 8.5Amp

- Dimension(Width x Height x Depth):
  290x52x220mm (4/8CH DVR with one 3.5”HDD)
  340x60x280mm (4/8CH DVR with Removable HDD+3.5”HDD)
  430x80x320mm (16CH DVR)
- Display/Recording frame rate and resolution:

Models	4CH DVR	8CH DVR	16CH DVR
Display Frame Rate	120/100fps	240/200fps	480/400fps
Recording Frame Rate	60(NTSC)/50(PAL)fps	60(NTSC)/50(PAL)fps	120(NTSC)/100(PAL)fps
Display Resolution	640x448 (NTSC) / 640x544(PAL)		
Recording Resolution	640x224(NTSC) / 640x272(PAL)		

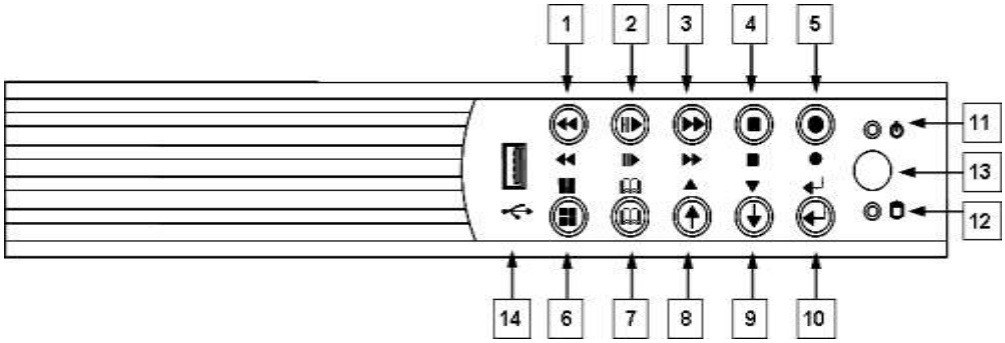
2. Product Outline

3. Front Panel

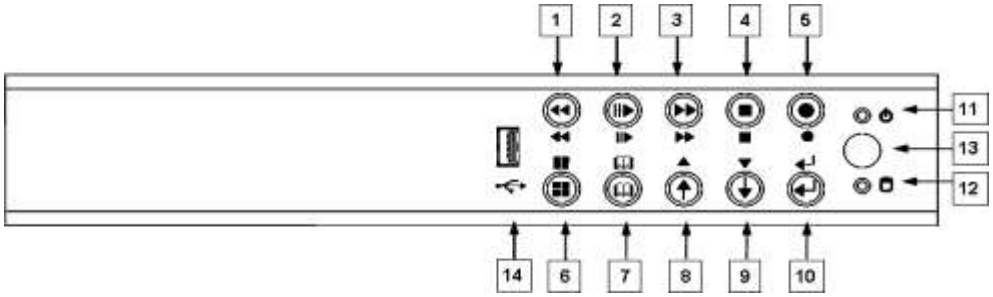
3.1. The slim model (4/8CH DVR)

-with one internal HDD

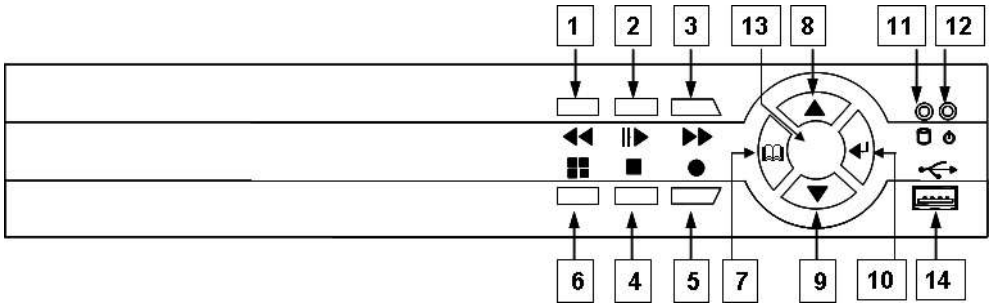
(Type I)



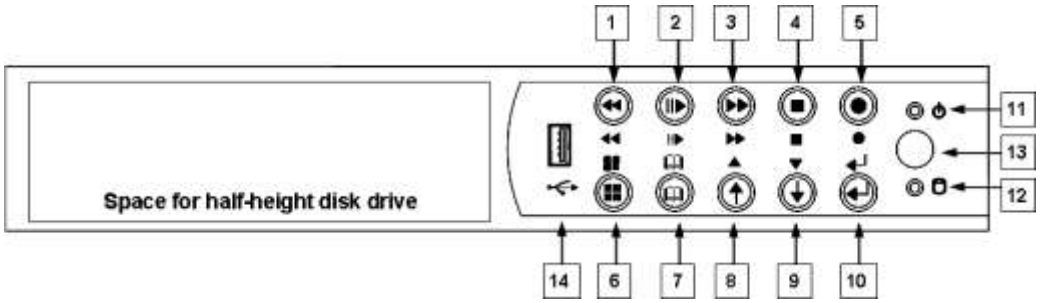
(Type II)



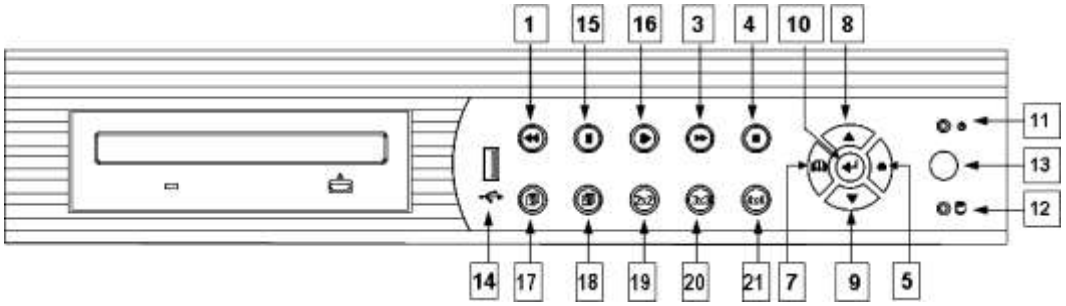
(Type III)



3.2. The removable drive (CD-ROM/DVD-ROM) model (4/8CH DVR) -with one front-accessible disk drive (or CD-ROM/DVD-ROM) and one internal HDD



3.3. 16CH DVR



Controls:

No.	Name	Function
1	◀◀ REW	Backward search through a time-shifted or recorded video.
2	II/▶ PLAY/PAUSE	Start / Pause video playback or Enter Play menu
3	▶▶ FF	Forward search through a time-shifted or recorded video.
4	■ STOP	Stop playback / backup or Enter PTZ control menu
5	● REC	Start or stop recording/backup.
6	▪▪ MODE	Press to select 1/4(1/4/8 for 8ch) screen display.

7	🕮 MENU	Enter menu or back to previous menu list..
8	↑ / ▲UP	Moves up through the list of menu. Also used to select menu options or change the DVR configuration values. Or Enter Event Search Menu.
9	↓ / ▼ DOWN	Moves down through the list of menu. Also used to select menu options or change the DVR configuration values.
10	↵SELECT/ENTER	Use this button to change values on main menu or sub menu setting.
15	II PAUSE	Pause video playback
16	II▶ PLAY	Start video playback
17	1 Full Screen	Press to select full screen display (CH1~CH8)
18	9 Full Screen	Press to select full screen display (CH9~CH16)
19	**2x2** 4 Split View	Press to select 4 split view on screen display. With a sequence of CH1~CH4,CH5~CH8,CH9~CH12, CH13~CH16
20	**3x3** 9 Split View	Press to select 9 split view on screen display. With a sequence of CH1~CH8, CH9~CH16
21	**4x4** 16 Split View	Press to select 16 split view on screen display as CH1~CH16

Indicators:

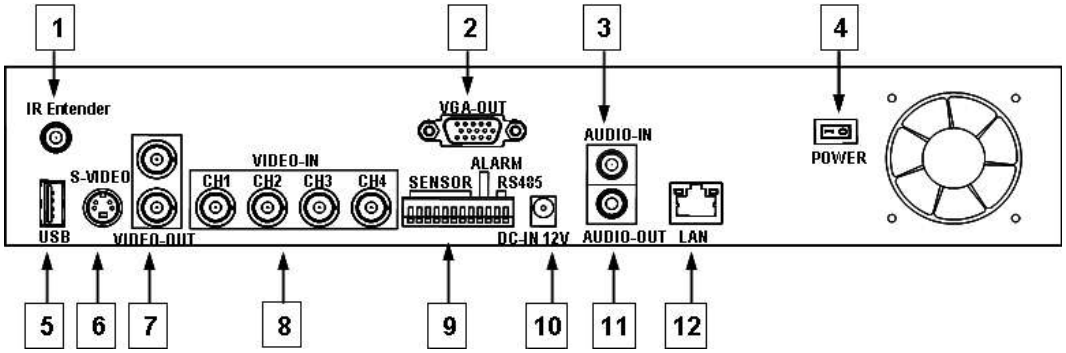
No.	Name	Function
11	● Power LED	The DVR unit is powered up and running. (Green color)
12	● Hard disk Actived LED	LED indicator flashes at hard disk is acting (Red color)

I/O:

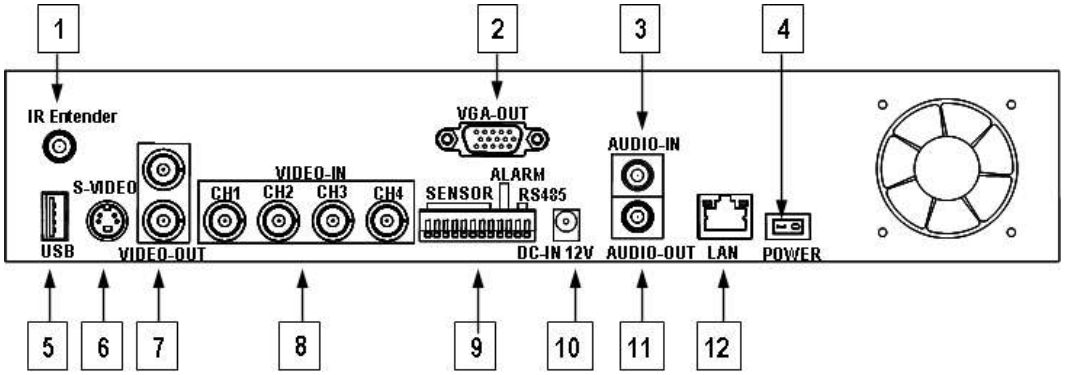
No.	Name	Function
13	● IR Receiver	IR Control receiver (Refer to IR Remote Controller)
14	USB	Connects PC for firmware upgrading/USB backup

4. Rear Panel

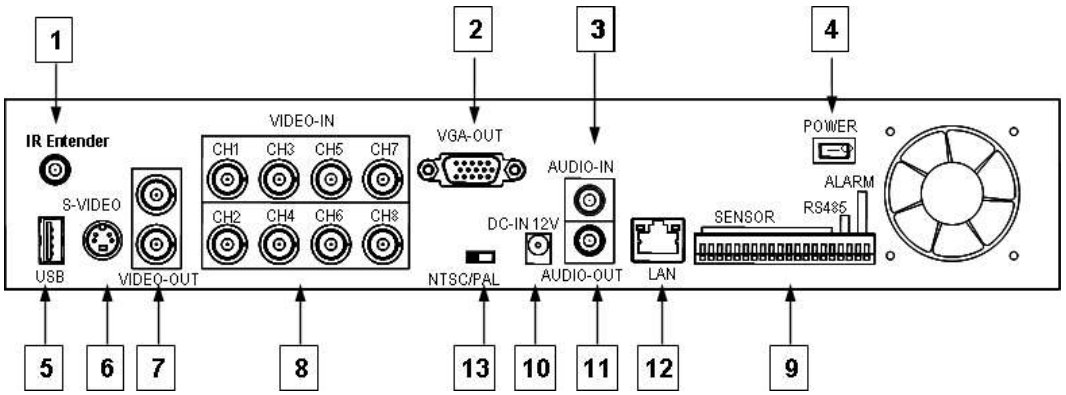
4 CH Triplex DVR (with Removable Disk Drive)



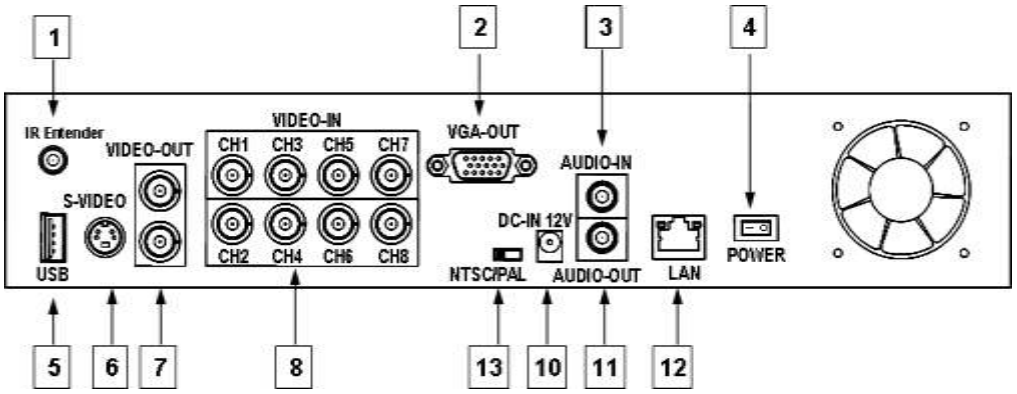
4 CH Triplex DVR (without Removable Disk Drive)



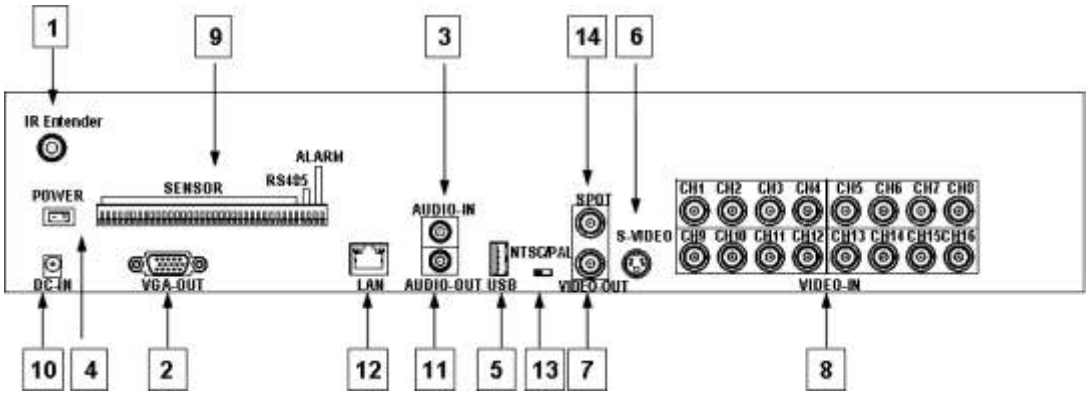
8 CH Triplex DVR (with Removable Disk Drive)



8 CH Triplex DVR (without Removable Disk Drive, without Sensor/Alarm)



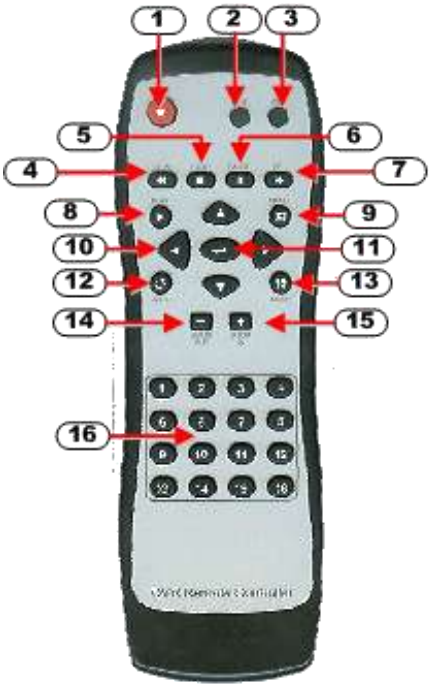
16 CH Triplex DVR



No.	Function
1	IR Extender connector (Optional)
2	VGA Display Connector (DB-9)
3	AUDIO-IN
4	POWER ON/OFF Switch
5	USB PORT (dedicated Only for Mouse Connection, must connect at the beginning of Power On)
6	S-VIDEO
7	VIDEO OUT (Monitor)
8	VIDEO IN (BNC)
9	General Purpose I/O for SENSOR/ALARM/RS485
10	DC-IN (12V)
11	AUDIO-OUT
12	LAN (RJ45)
13	NTSC/PAL SELECTOR

14	SPOT MONITOR

5. IR Remote Controller



DVR Mode

No	Button / Name	Function
1	REC	Start or stop recording / backup.
2	● DVR	Switch to DVR mode
3	● PTZ	Switch to PTZ mode
4	◀◀ REW	Backward search through a time-shifted or recorded video.
5	■ STOP	Stop playback or backup.
6	II PAUSE	Pause recording or playback.
7	▶▶ FF	Forward search through a time-shifted or recorded video.
8	► PLAY	Start video playback.
9	🕮 MENU	Enter menu or exit.
10	▲(UP)/ ▼(DOWN)/ ◀ (LEFT)/ ►(RIGHT)	Moves up/down/left/right through the list of menus. Or use it to select / change the DVR configuration values.
11	↵(Enter/Select)	Use this button to change or confirm values on main menu or sub menu setting.
12	↺ AUTO	Press AUTO button to start screen auto sequence.
13	▪▪ MODE	Back to 4/8 (for 4/8ch) screen display while screen is full..
14	- ZOOM OUT	N/A

15	+ ZOOM IN	N/A
16	1,2,----16 (Channels)	Channels Selector (CH1~CH16 depends on each DVR)

PTZ Mode

No	Button / Name	Function
1	REC	N/A.
2	● DVR	Switch to DVR mode
3	● PTZ	Switch to PTZ mode
4	◀◀ REW	Move Left.
5	■ STOP	N/A.
6	II PAUSE	N/A.
7	▶▶ FF	Move Right
8	► PLAY	Line Scan
9	MENU	Exit menu or switch to DVR.
10	▲(UP)/ ▼(DOWN)/ ◀ (LEFT)/ ►(RIGHT)	Moves up/down/left/right through the list of menus.
11	↵ (Enter/Select)	Enter function setting menu
12	↺ AUTO	Auto Pan
13	MODE	Enter (PTZ) channel setting menu.
14	- ZOOM OUT	Zoom Out
15	+ ZOOM IN	Zoom In
16	1,2,----16 (Channels)	Channels Selector (CH1~CH16 depends on each DVR)

Remark: Auto Pan and Line Scan may switch the operating that depends on Camera's internal setting.

Installation

Be sure there is no power connection before starting installation!

1. Install the disk drives

There are two spaces for disk drives installation on the DVR: One front accessible R/W CD-ROM/DVD-ROM (or removable HDD drive) and one internal 3.5" hard drives with IDE (default) or SATA interface.

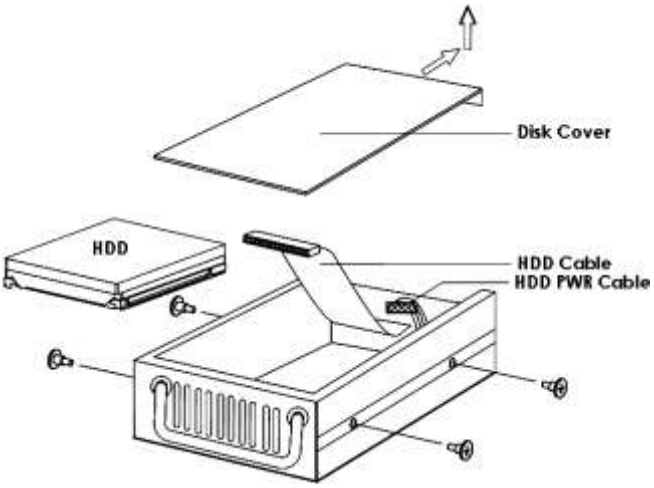
Set the HDD (installed with OS/DVR software) jumper into "Master" to make sure all operating will be normal. The other HDD would be set to "Slave".

1.1. Install the removable disk drive on the front panel

Step1: Unlock the removable disk drive and slide out the HDD tray.

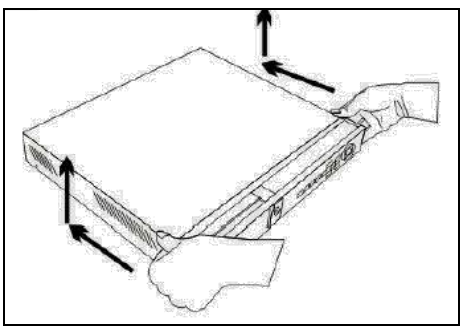
Step2: Remove the HDD tray's cover. Put one HDD drive into the tray and well-connect the cable to HDD drive on the rear side of the tray.

Setp3: Fix four screws on both sides, put the cover back and slide back the HDD tray.



1.2. Install the internal disk drives (IDE interface) for 4/8CH DVR

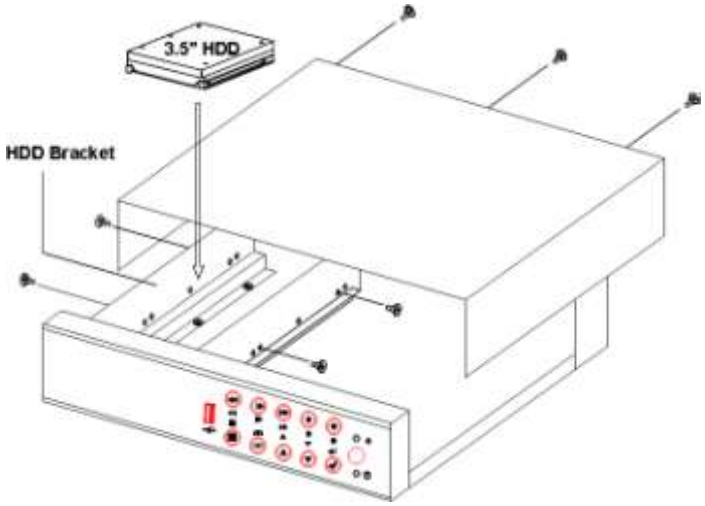
Step1: Unscrew three screws on DVR's rear panel. Then slide backward the chassis's top cover and move it upward



Step2: Fix the hard drive

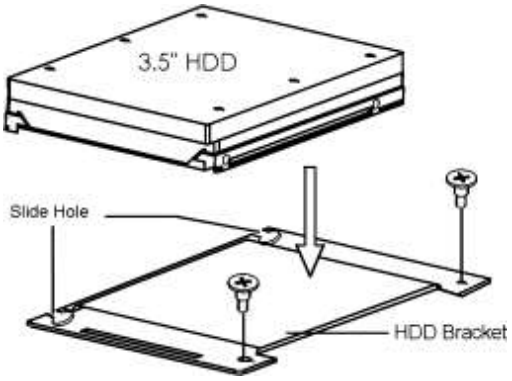
The Slim Model (4/8 CH DVR)

Put the HDD into the HDD bracket and fixed two screws on each side. Plug in the HDD cable and power line for using.

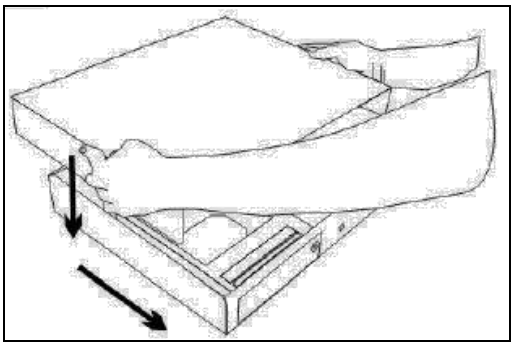


The removable drive (CD-ROM/DVD-ROM) model (4/8CH DVR)

Unscrew two screws HDD bracket near to the front panel. Slide it forward to rear side to take the HDD bracket and install 3.5” HDD drives on the top. Plug in the HDD cable and power line for using



Then, Put the chassis’s cover back

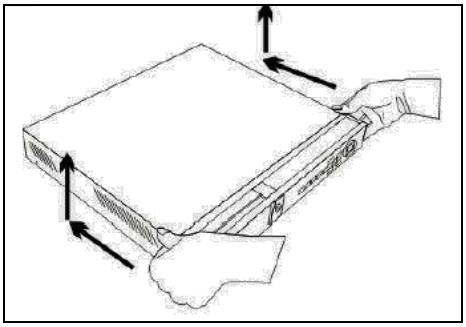


1.3. Install the internal disk drives (SATA interface) for 4/8CH DVR

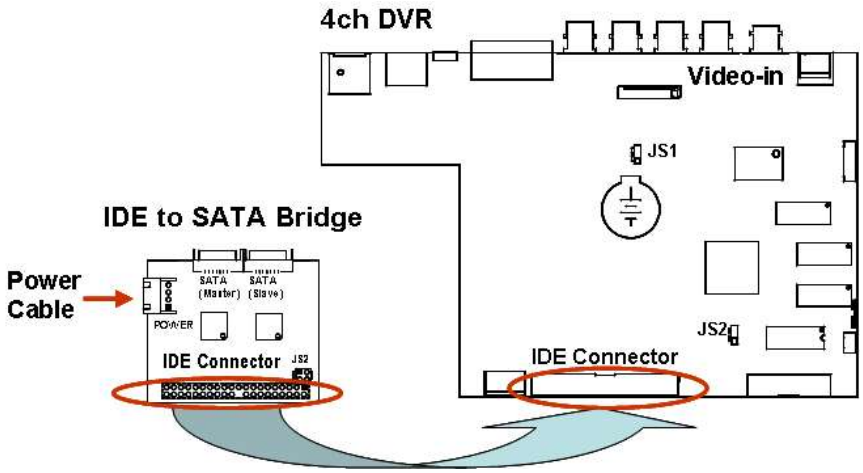
It needs an IDE to SATA Bridge (Optional) to transfer IDE interface into SATA before starting to install the hard disk,

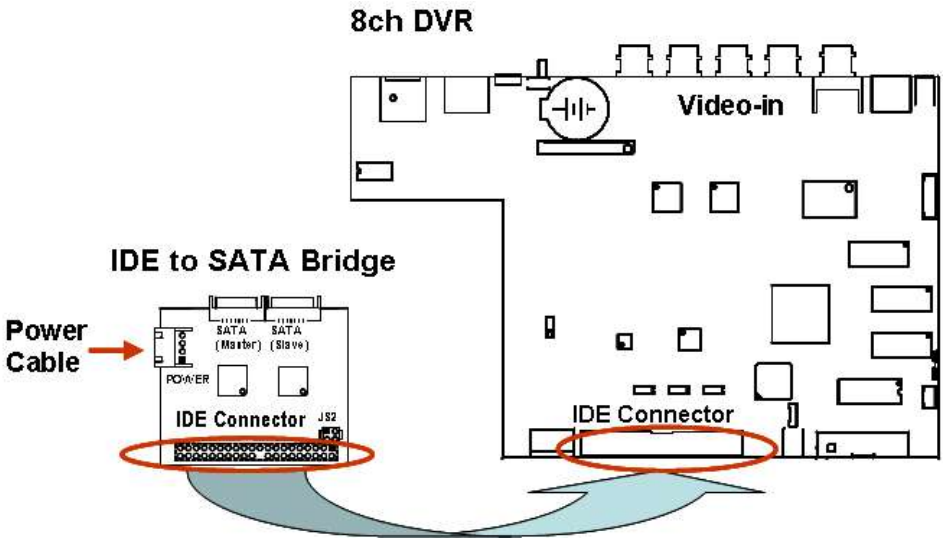
Step 1: Place the IDE to SATA Bridge into DVR main unit.

Unscrew three screws on DVR's rear panel. Then slide backward the chassis's top cover and move it upward.

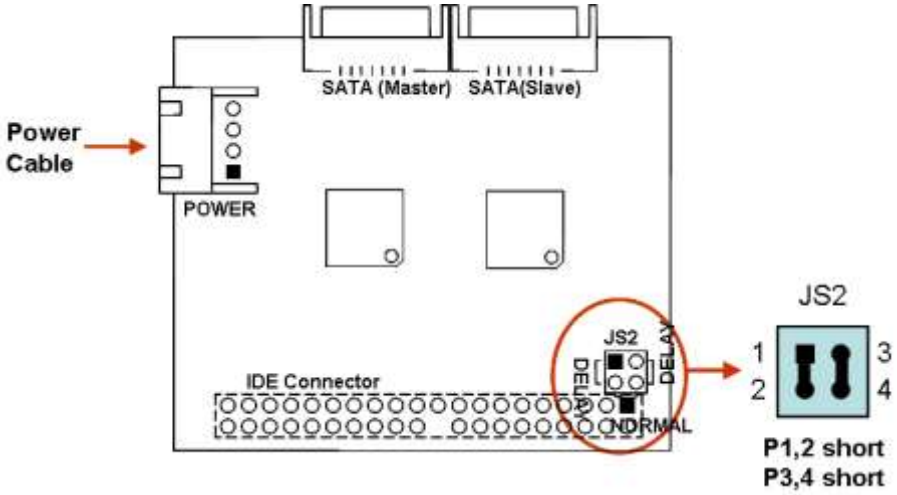


Step 2: Place the IDE to SATA Bridge lodge in DVR main board as following:

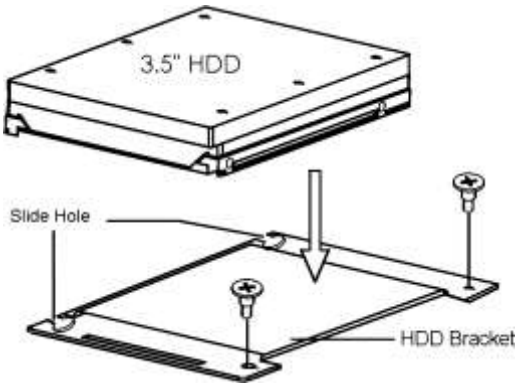


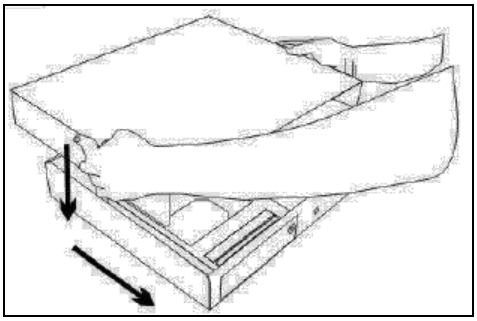


Step 3: Make sure the jumpers on IDE to SATA bridge (JS2) have been set to P1,2-short and P3,4-short as following

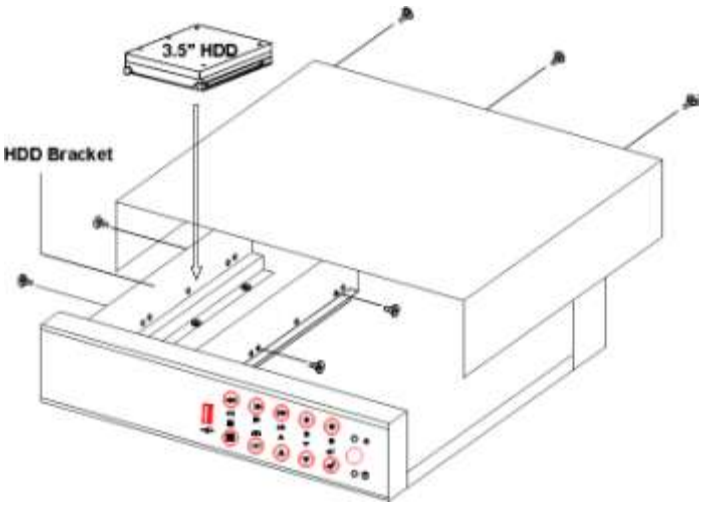


Step 4: Unscrew two screws HDD bracket near to the front panel. Slide it forward to rear side to take the HDD bracket and install 3.5” HDD drives on the top
Then, Put the chassis’s cover back





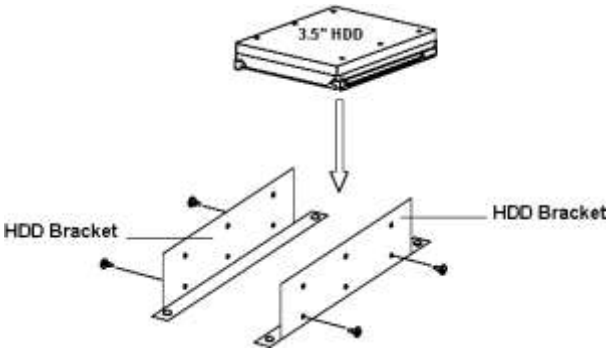
OR



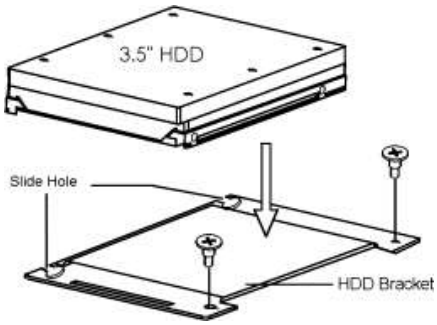
1.4. Install the internal disk drives for 16CH DVR

16CH DVR provides PATA (IDE) and SATA interface both. Put the HDD into HDD bracket and fix it by screws. Then, install the whole HDD set into DVR.

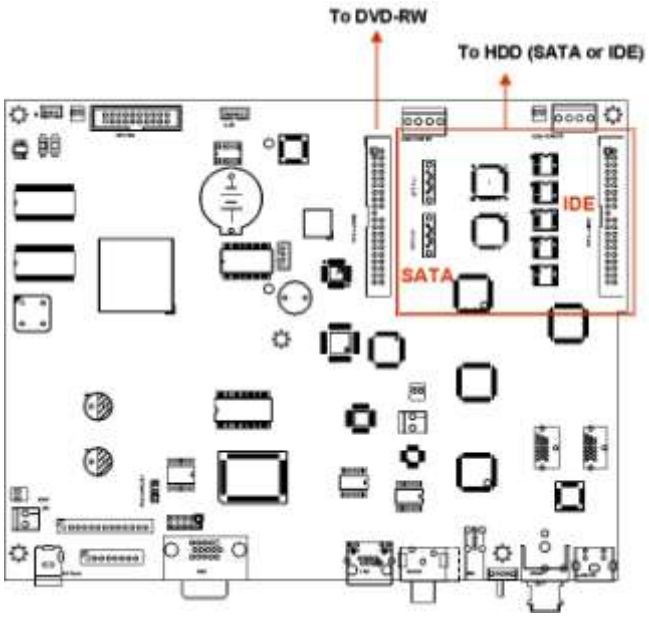
<For two HDD installation>



<For one HDD installation>



There are two models for 16ch DVR: 1) Four internal 3.5” hard drives with SATA interface. Or 2) One front accessible R/W DVD-ROM and one internal 3.5” hard drives with PATA (IDE) or SATA interface as following figure.



2. USB connector on rear panel

USB connector on rear panel is dedicated for USB mouse using.

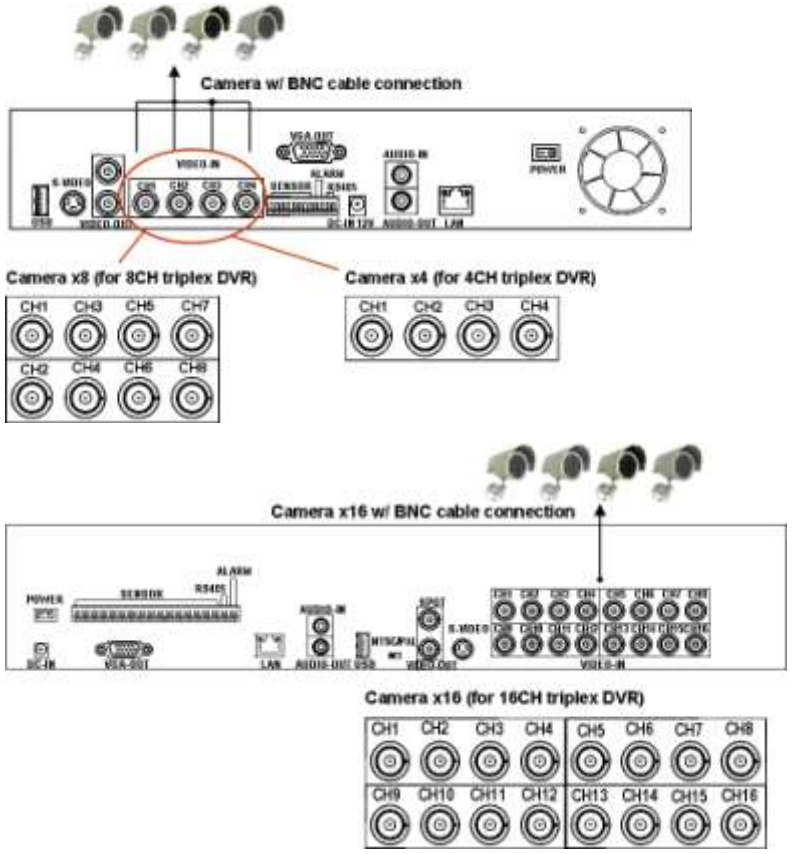
Do not connect to any other USB device except the mouse.

3. Camera connections

There are 4/8/16 channels for cameras' connections named CH1, CH2, CH3 …. CH16.

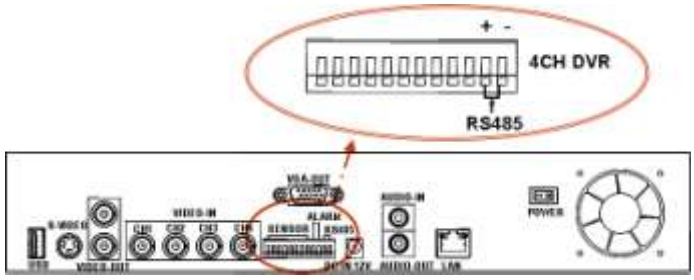
Each camera has two wirings basically: BNC and Power.

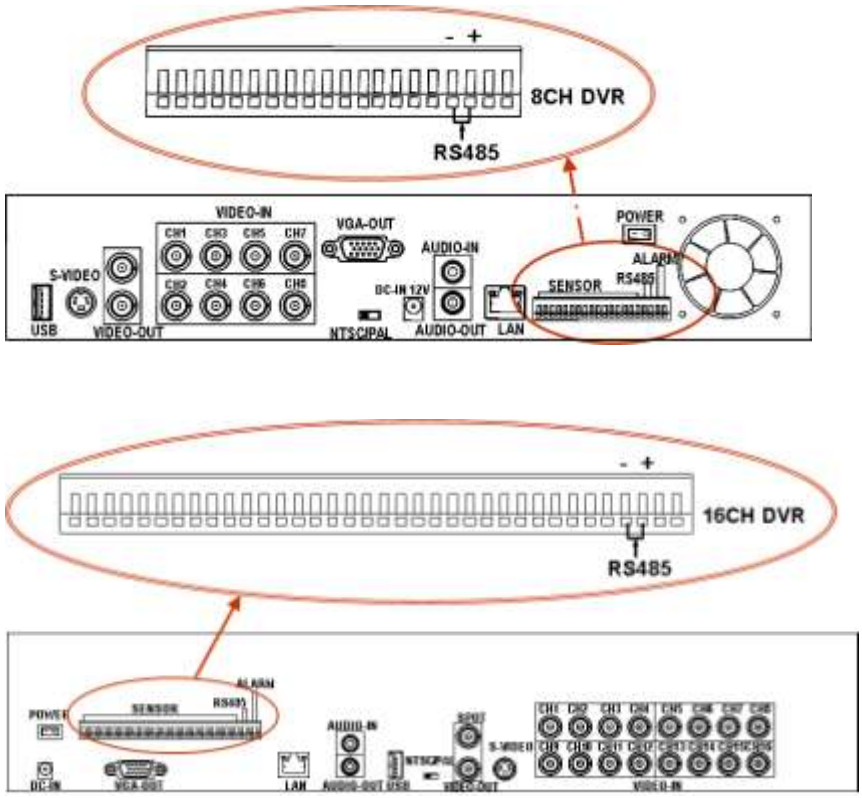
Connect the BNC cable to DVR's "VIDEO-IN" connector on rear panel for video signals and connect the power cable to the camera's power adapter.


Camera w/ BNC cable connection
Camera x8 (for 8CH triplex DVR)
CH1 CH3 CH5 CH7
CH2 CH4 CH6 CH8
Camera x4 (for 4CH triplex DVR)
CH1 CH2 CH3 CH4
Camera x16 w/ BNC cable connection
Camera x16 (for 16CH triplex DVR)
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8
CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16

The Dome camera has one more RS485 wiring for activity control. At first, please refer to the next section for setting JS1 selection to RS485 (default is RS485).

Please refer to the following figure and connect to DVR's "RS485 connectors" (Two pines) on rear panel for controls signal.



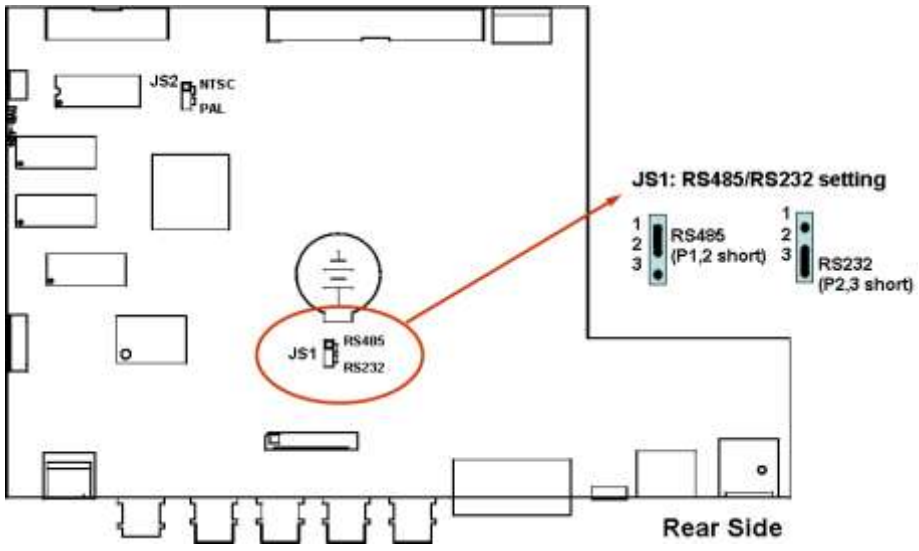


4. RS485/RS232 Selection

The DVR provide one com port. It can be selected to RS232 or RS485 by setting the jumper on the main control board.

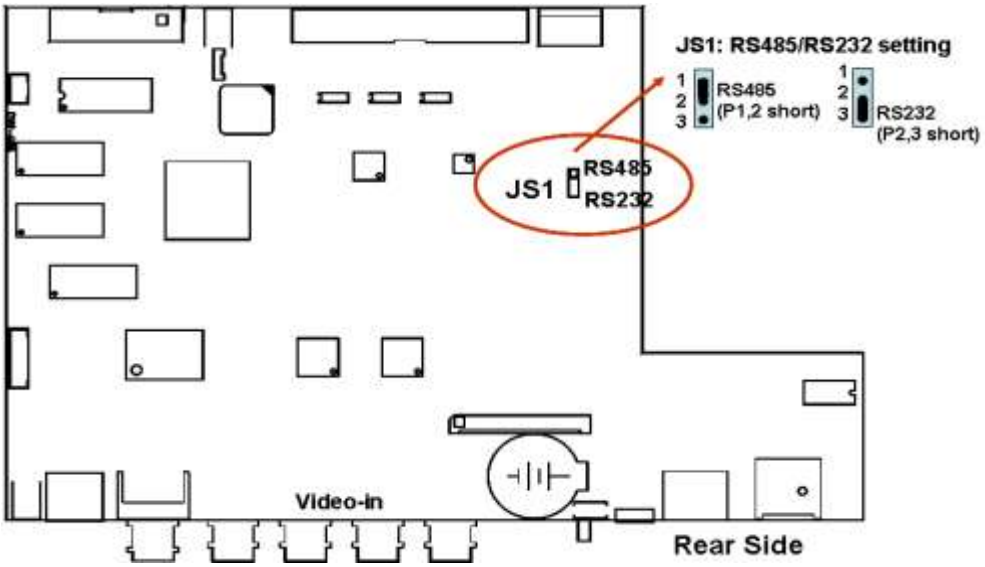
4.1. 4 CH Triplex DVR

Open the top cover as mentioned; there is a main control board with JS1: the jumper setting to select RS485 or RS232 as following figure.



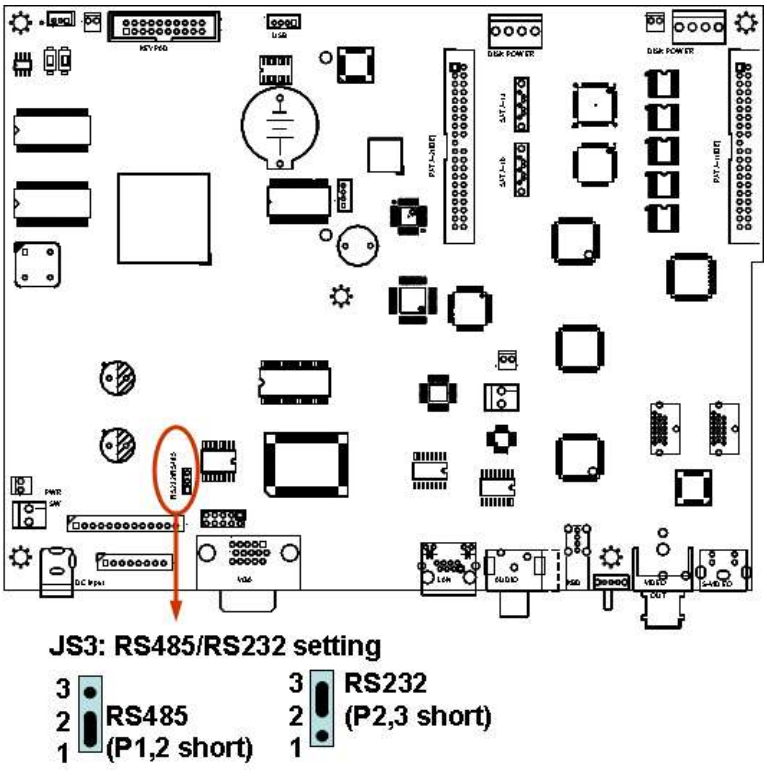
4.2. 8 CH Triplex DVR

Open the top cover as mentioned; there is a main control board with JS1: the jumper setting to select RS485 or RS232 as following figure.



4.3. 16 CH Triplex DVR

Open the top cover as mentioned; there is a main control board with JS3: the jumper setting to select RS485 or RS232 as following figure.

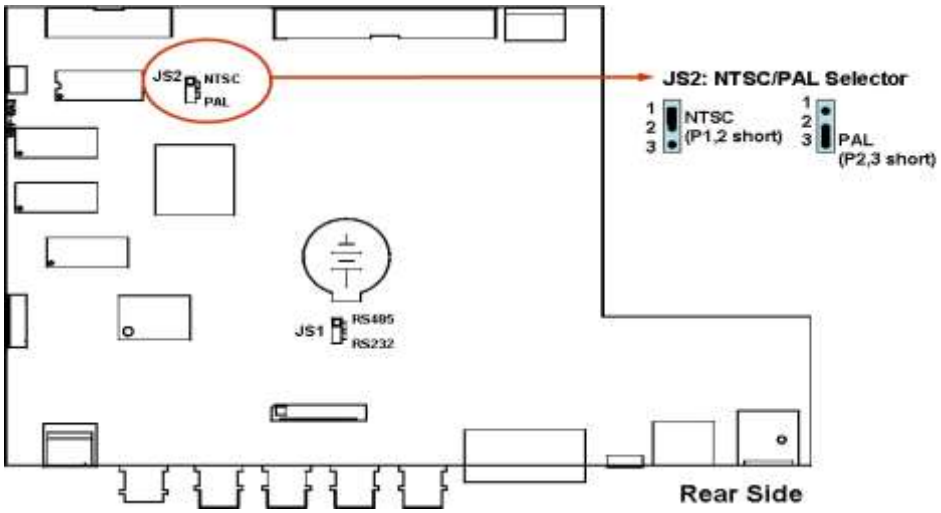


5. Video Format Selection

The DVR accepts two video formats: NTSC and PAL. It can be select by setting the jumper on the main control board.

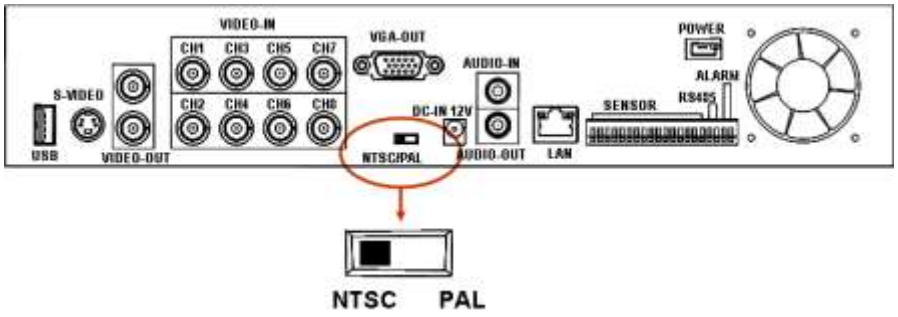
5.1. 4 CH Triplex DVR

Open the top cover as mentioned; there is a main control board with JS2: the jumper setting to select NTSC or PAL for video format as following figure.



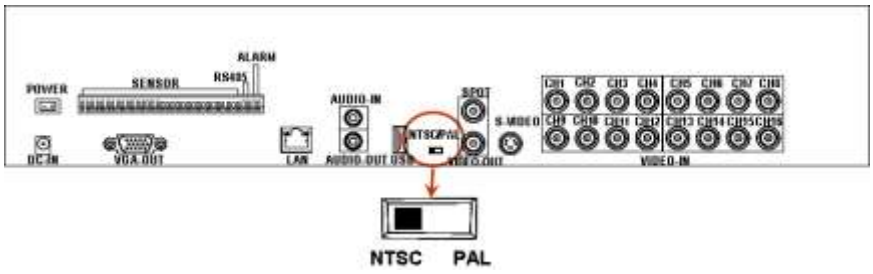
5.2. 8 CH Triplex DVR

There is a Video format selector on the rear panel as following figure.



5.3. 16 CH Triplex DVR

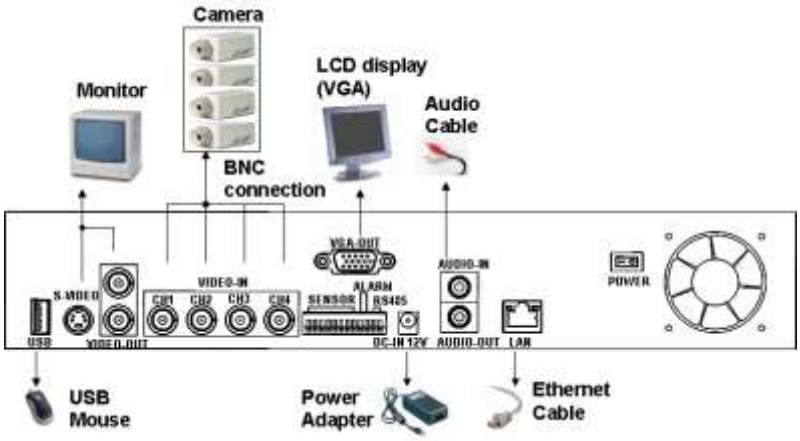
There is a Video format selector on the rear panel as following figure.



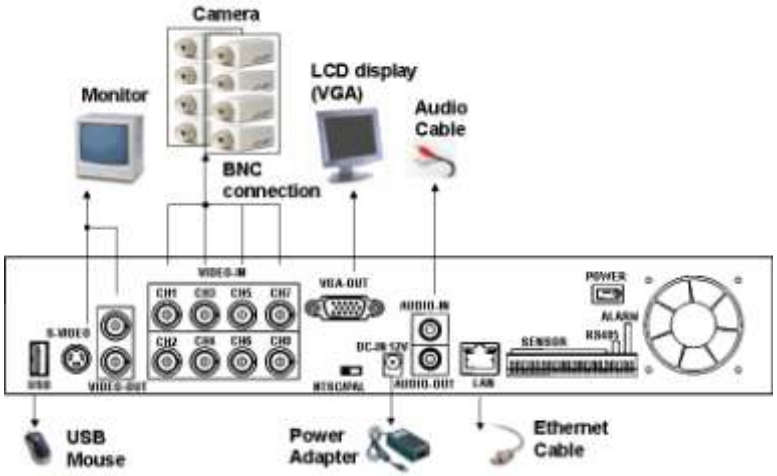
6. Cablings

Before starting to use, you have to connect all the peripherals like LCD display, cameras … as following figure:

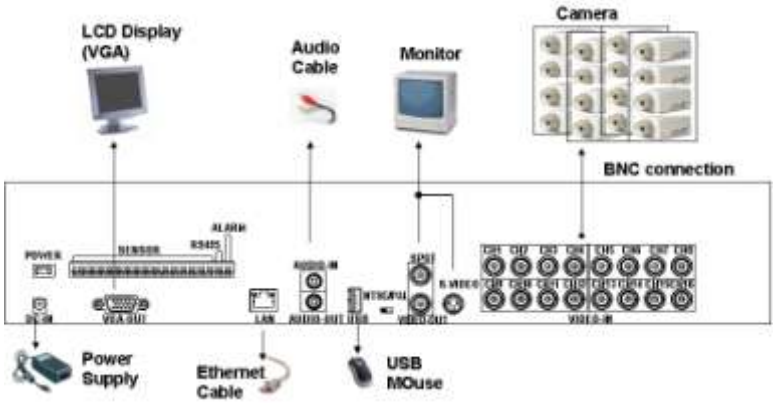
6.1. 4 CH Triplex DVR



6.2. 8 CH Triplex DVR



6.3. 16 CH Triplex DVR

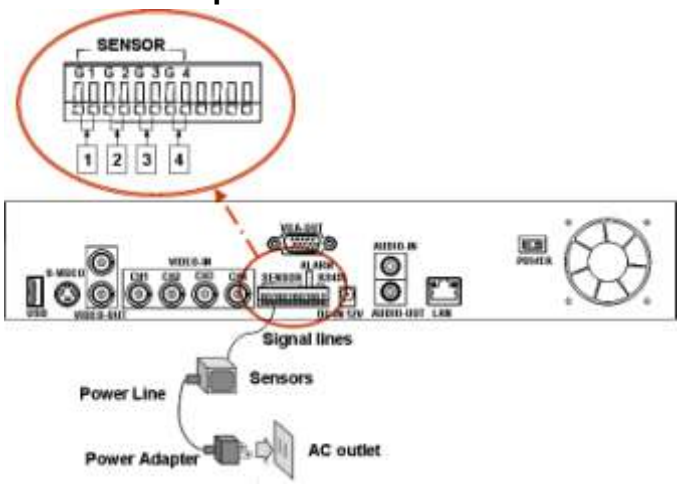


7. Sensor Installation

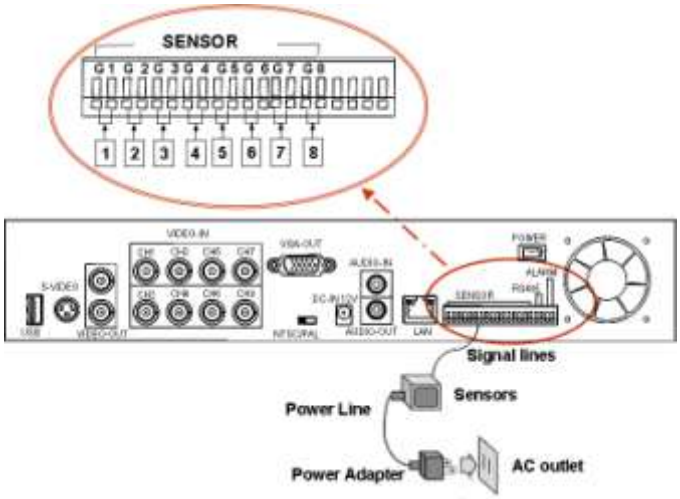
The DVR unit can be connected up to 4/8/16 sensor inputs as following figure.

Each sensor has two lines: signal and ground in order to sense the sensor's status.

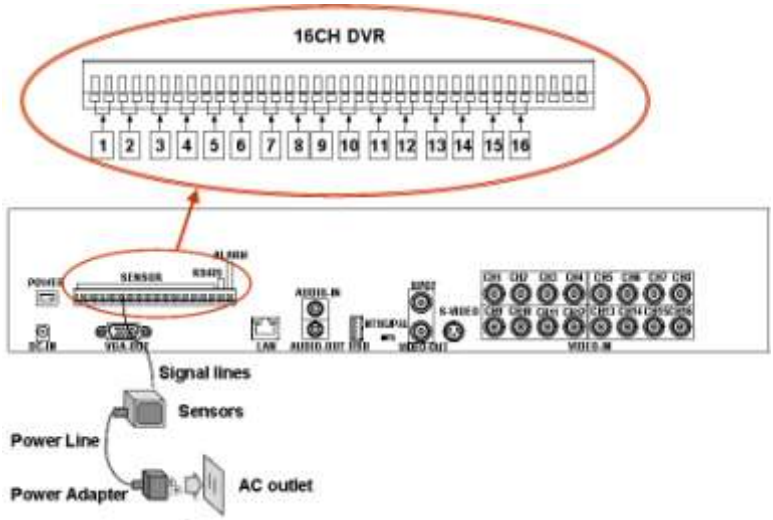
7.1. 4 CH Triplex DVR



7.2. 8 CH Triplex DVR



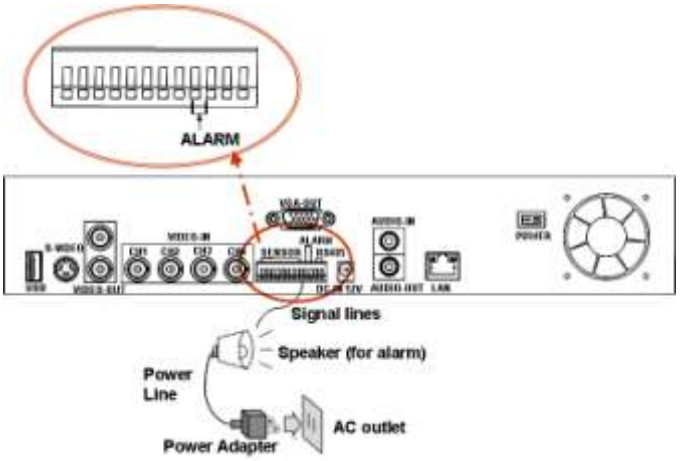
7.3. 16 CH Triplex DVR



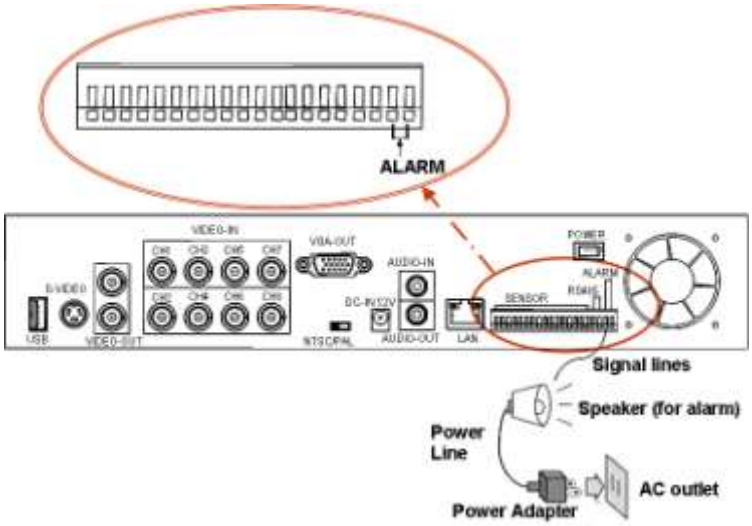
8. Alarm Installation

The DVR unit provides one alarm (speaker) signal. Please refer to following figure.

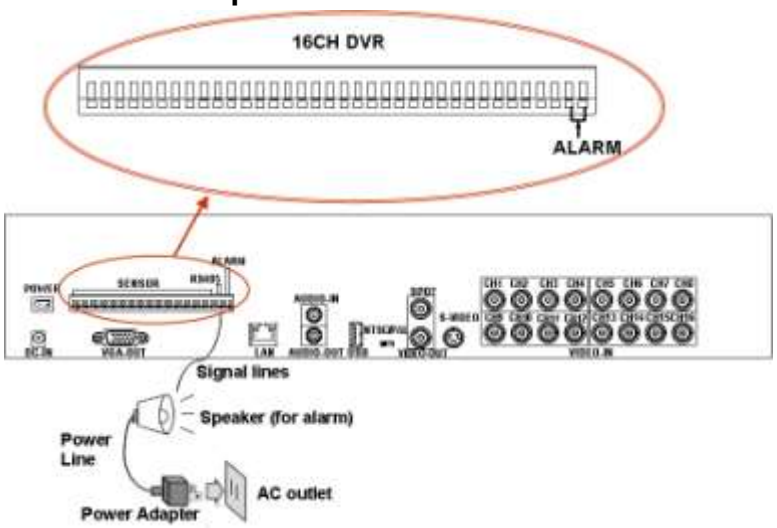
8.1. 4 CH Triplex DVR



8.2. 8 CH Triplex DVR



8.3. 16 CH Triplex DVR



Start up the DVR System

After the unit is properly installed, the DVR unit is ready to record and play. Then apply power by turn on the power switch.

After the unit is powered on, the unit will check HDD for several seconds, and then the unit will enter into real-time display mode shown as the following screen:

1. Commands

1.1. Operating Buttons

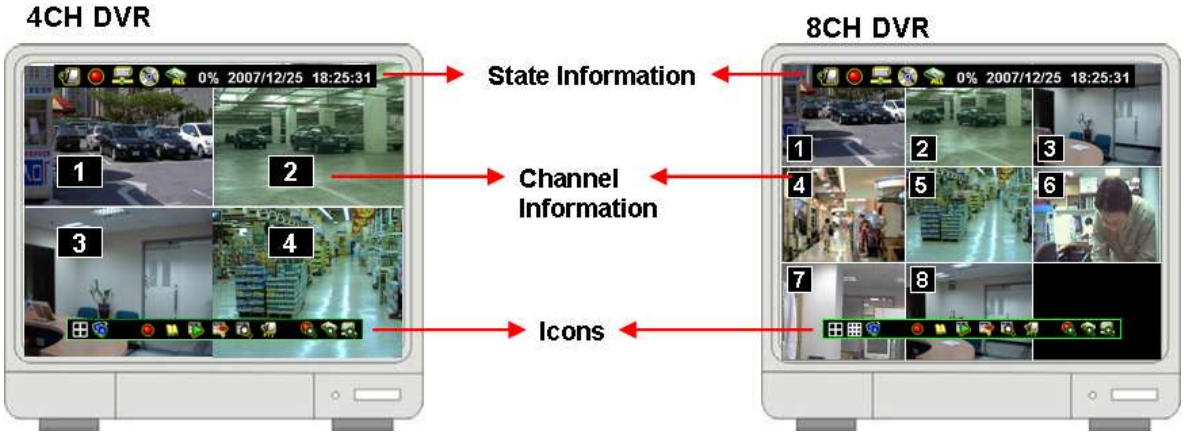
🕮 **:** Press it to enter the main menu or and exit the menu.

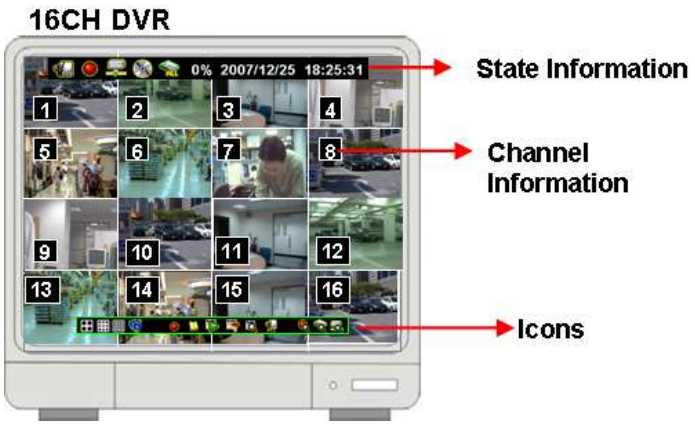
🡅 / 🡇 (↑ / ↓): Up / Down – To move up/down through the list of menu. Also used to select menu options or change the DVR configuration values.

⏮/⏭(◀ / ▶): Left/Right – To move left/right through the list of menu.

↵: Select / Enter - To Enter menu list or select DVR configuration values

1.2. Mouse Operating





1.3. State Information

There are state informations on the upper of the screen to show the system status .

: Camera on line. : Camera signal loss

: Recoding : Stop Recording

: Network acting : Network no connection

: USB disk

: CD / CDRW

: HDD Status : 1st Hard drive : 2nd Hard drive

: Overwrite the hard drive when Hard drive is full.

XX%: Recording Capacity of Hard drive (show by %)

2007/12/25: Date

18:25:31: Time

: Channel Rotation

1.4. Icons

There is a control bar with several icons will display by press "↵" (Select) or move the cursor down

(4ch DVR for example)

(8ch DVR for example)

(16ch DVR for example)

: : 4 Split View (4ch dvr) : : 9 Split View (8ch dvr)

: 16 Split View (16ch DVR)

: Auto channel rotation (from 1~4 /1~8 /1~16)

: Start recording : Stop recording

: Enter Main menu

: Play menu(Playback), To play the recorded data.

: Archive Menu, To save the configuration (Available Soon)

: Event search. To search the events

: Pan/Tile/Zoom Control. To control the P/T/Z camera

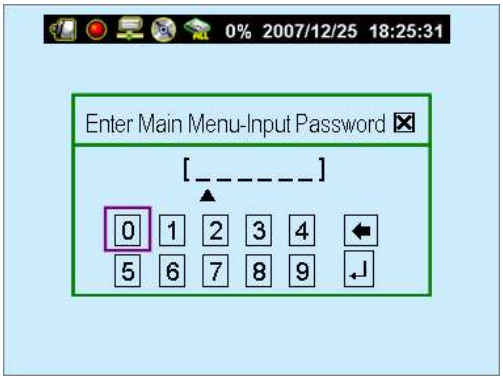
: Record Information

: Hard drive Information

: Network Information

2. Main Menu

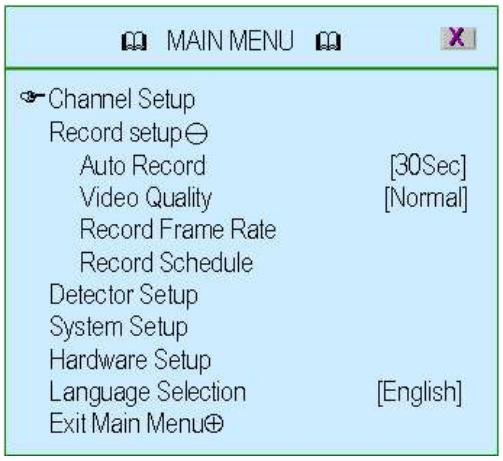
Press 🕮 to enter the “main menu”, it will show the password input inquiry as following. Please enter six numbers by controls on front panel (by using ⏮/⏭{◀ / ▶) and ↵) or the buttons (number 1~16) on IR remote. Default password is “123456”.,



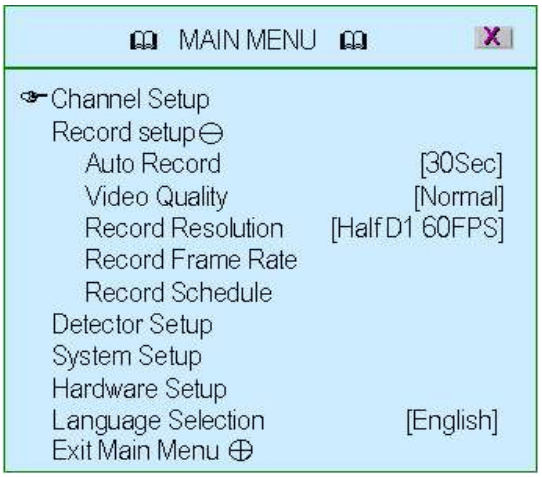
ESC/Discard: To escape this menu by only using USB mouse

After enter the main menu password, it goes into the main menu for DVR setup

(4/8CH DVR)



(16CH DVR)

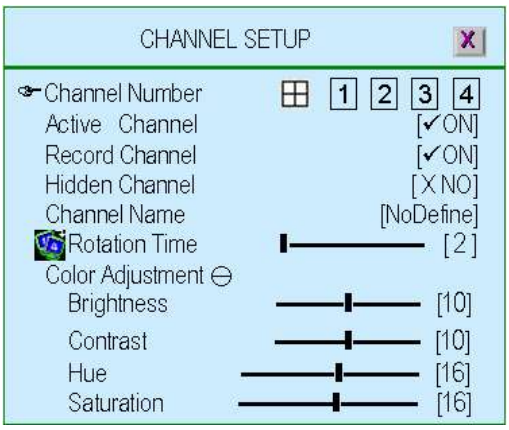


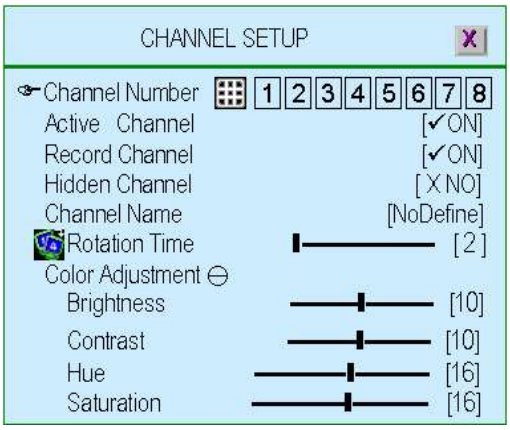
- **Channel Setup:** To select or specify the channel for display/record.
- **Record Setup:** To setup recording status of the channel which has been selected at “Channel Setup”.
- **Detector Setup:** To select the channel would like to be detected. Also to setup all the detection/sensor status.
- **System Setup:** To setup the DVR system configuration including of date/time, button beep, input device speed ....etc.
- **Hardware Setup:** To update the firmware and to setup the input/output device configuration such as disk drive, network, display and audio
- **Language Selection:** To select the language for operating
- **Exit Main Menu:** To exit the main menu

3. Channel Setup

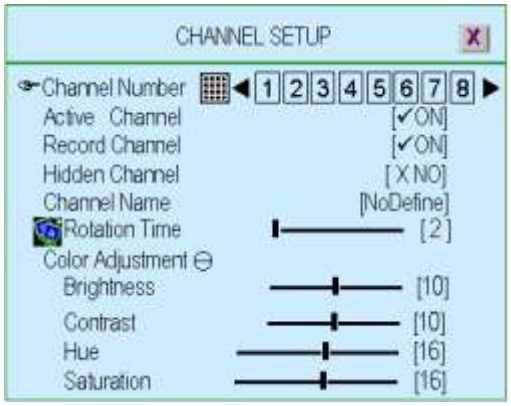
Press 🕮 to enter the “Channel setup” as following.

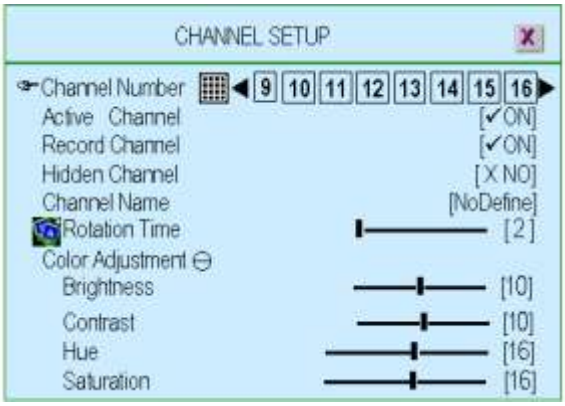
(4CH DVR) **(8CH DVR)**





(16CH DVR)





3.1. Channel Number

To select or specify the channel for displaying/recording.

”▦/▦/▦” (default) (Full screen mode): you can view / record all channels (4 or 8 or 16) on the screen of full-screen.

“1,2,3,4” or “1,2,3,4,5,6,7,8” or “9,10,11,12,13,14,15,16”: you can view / record each channel (4 or 8) be selected on the screen.

3.2. Active Channel

To set the channel been selected at “Channel Number” to both display on screen and record or not.

“ON” – Display on screen, Channel Number color turns to red

“OFF”- No display on screen. Channel Number color turns to white

It can be setup each channel separately by choosing the dedicated channel at **“Channel Number”.** Or to choose ”▦/▦/▦” for all channels

3.3. Record Channel

To set the channel been selected at “Channel Number” to be recorded or not. “ON” – recording, “OFF”- No recording.

It can be setup each channel separately by choosing the dedicated channel at “Channel Number”. Or to choose ”▦/▦/▦” for all channels.

3.4. Hidden Channel

Set the channel been selected at “Channel Number” to display on screen or not. But it does not matter with recording mode.

“ON” – Hidden the channel on screen you choose, Channel Number color turns to grey. The recording function is acting.

“OFF”- Not hidden

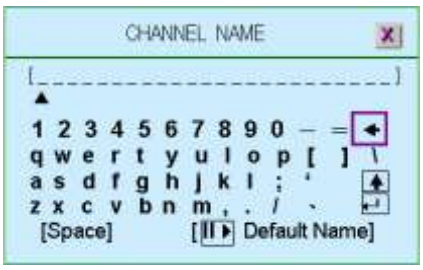
It can be setup each channel separately by choosing the dedicated channel at **“Channel Number”.** Or to choose ”▦/▦/▦” for all channels

3.5. Channel Name

To specify the channel name with 24 characters (max.)

Press “ II ▶” (Play) :There are several channel name: “Room”, Hall”, ” Door”, “Lift”, “Area”, “Floor”, “Entry”, “Point” for use.

Or you can define the name by using keyboard, controls on front panel or buttons on IR remote: **▲ / ▼ (↑ / ↓)** – move up / move down, **◀◀/▶▶(◀ / ▶):** move left / move right to the character would like to be selected and press **”↵”** to select as shown at following figure. The channel name will show on the top of each channel



3.6. Rotation Time

To setup how long to display each channel on full screen from 2~30sec.

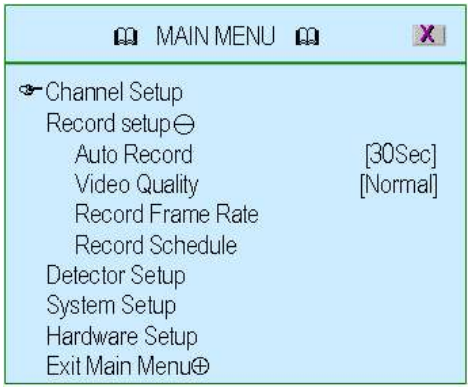
3.7. Color Adjustment

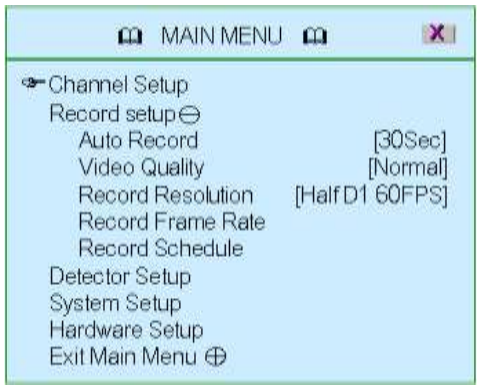
- **Brightness:** Press “↵” button to change (1~20). Default is 10
- **Contrast:** Press “↵” button to change (1~20). Default is 10
- **Hue:** Press “↵” button to change (1~32). Default is 16
- **Saturation:** Press “↵” button to change (1~32). Default is 16

4. Record Setup

Press 🕮 to enter the “Record setup” as following.

(4/8CH DVR) **(16CH DVR)**





4.1. Auto Record

To setup the recording time period by 0sec(OFF), 10sec, 20sec, 30sec, 40sec, 50sec or 60sec. Auto record will help you to re-start the recording automatically in case of abnormal shut down.

4.2. Video Quality

There are three different image video quality settings: NORMAL, LOW, HIGH. Default is NORMAL. Higher the video quality is the clearer images the unit plays. But occupy larger recording size on HDD.

4.3. Record Resolution (only for 16CH DVR)

There are two record resolution for setting: Half D1 60FPS & CIF 120FPS Default is Half D1 60FPS.

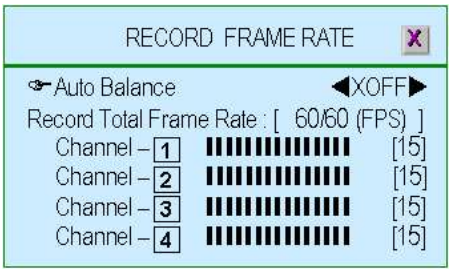
Half D1: 640 × 224 for NTSC systems and 640 × 272 for PAL systems

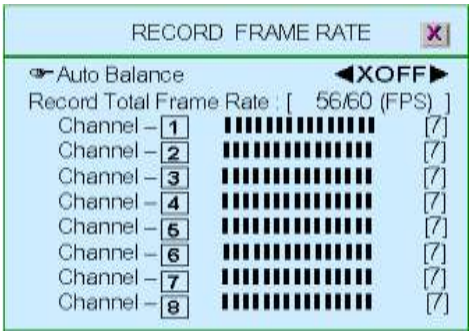
CIF: 320 x 224 for NTSC systems and 320 x 272 for PAL systems

4.4. Record Frame Rate

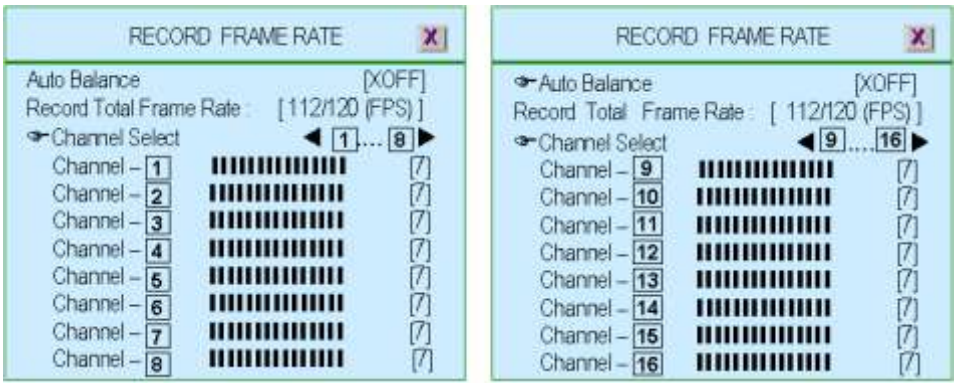
Setup the recording frame rate for each channel.

(4CH DVR) **(8CH DVR)**




RECORD FRAME RATE
Auto Balance ◀XOFF▶
Record Total Frame Rate : [56/60 (FPS)]
Channel – 1 [7]
Channel – 2 [7]
Channel – 3 [7]
Channel – 4 [7]
Channel – 5 [7]
Channel – 6 [7]
Channel – 7 [7]
Channel – 8 [7]

(16CH DVR)


RECORD FRAME RATE
Auto Balance [XOFF]
Record Total Frame Rate : [112/120 (FPS)]
Channel Select ◀ 1 ... 8 ▶
Channel – 1 [7]
Channel – 2 [7]
Channel – 3 [7]
Channel – 4 [7]
Channel – 5 [7]
Channel – 6 [7]
Channel – 7 [7]
Channel – 8 [7]
RECORD FRAME RATE
Auto Balance [XOFF]
Record Total Frame Rate : [112/120 (FPS)]
Channel Select ◀ 9 ... 16 ▶
Channel – 9 [7]
Channel – 10 [7]
Channel – 11 [7]
Channel – 12 [7]
Channel – 13 [7]
Channel – 14 [7]
Channel – 15 [7]
Channel – 16 [7]

4.4.1. Auto Balance

To setup all channel recording frame rate and keep each channel's frame rate in balance, Default is "OFF".

When Trigger mode is ON, the active channel has been detected will occupy all record frame rate if Auto Balance set as "ON".

4.4.2. Record Total Frame Rate

To setup each channel's recording frame rate in separately.

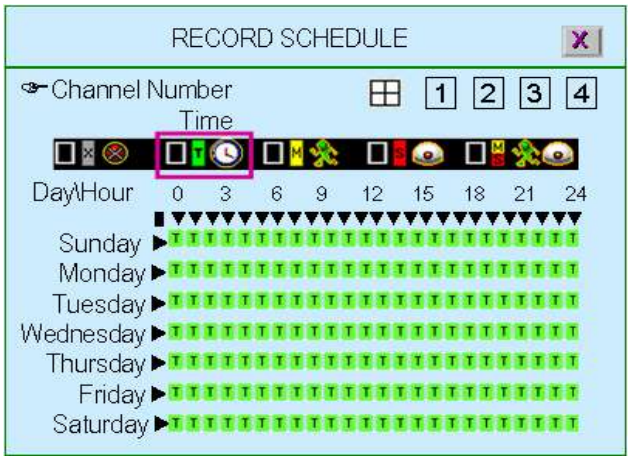
For 4ch DVR, Total frame rate is 60/60FPS (Frame Per Second), each channel is 15fps in balance as default.

For 8ch DVR, Total frame rate is 56/60FPS (Frame Per Second), each channel is 7fps in balance as default.

For 16ch DVR, Total frame rate is 112/120FPS (Frame Per Second), each channel is 3fps in balance as default.

4.5. Record Schedule

To setup the recording schedule during one week from Sunday to Saturday Each day is 24-hour.



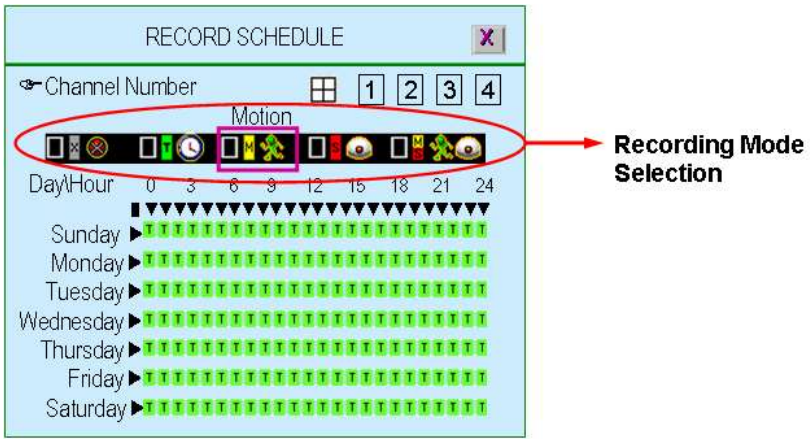
- **Channel Number**

  To setup the channel recording schedule.

  "/**"**: All channels will be set at the same recording schedule.

  "1,2,3,4" or "1,2,3,4,5,6,7,8" or "9,10,11,12,13,14,15,16": To setup each channel recording schedule.

- **Recording Mode Select**



There are five recording modes for selection: None, Time, Motion, Sensor and Motion&Sensor.

"/(/)" : To move left or right,

"↵" :To select the mode.

None : Recording is off during this duration.

Time : Indicates to record by time schedule

Sensor : Indicates to record by sensor trigger. It means the unit starts recording as the attached sensors being triggered during this period.

Motion : Indicates to record by motion detection.

Motion&Sensor : Indicates to record by both motion detection and sensor trigger..

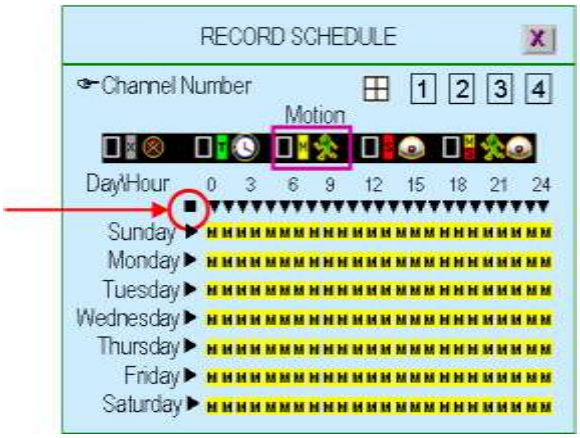
- **Recording Schedule**

"◀◀/▶▶(◀ / ▶)" : To move left or right. **"↵"** :To select the mode.

"▲ ▼(↑/↓)": To move up or down.

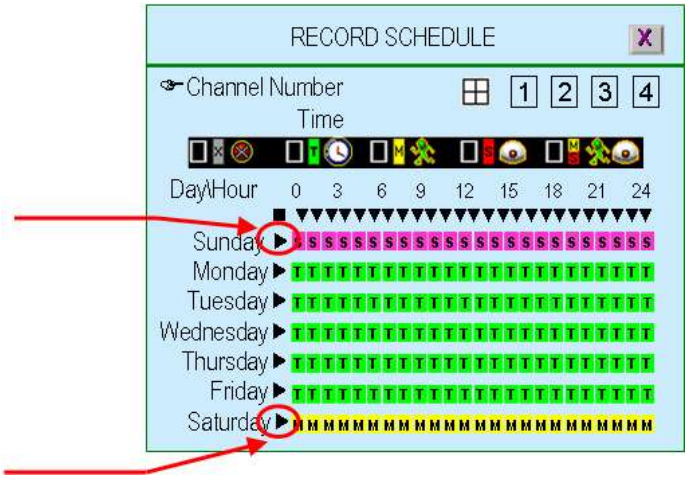
To set all 7-days /24hous at the same configuration by select "■"

For example, choose "Motion" mode for all 7-days by move to "■" and press""**↵":**

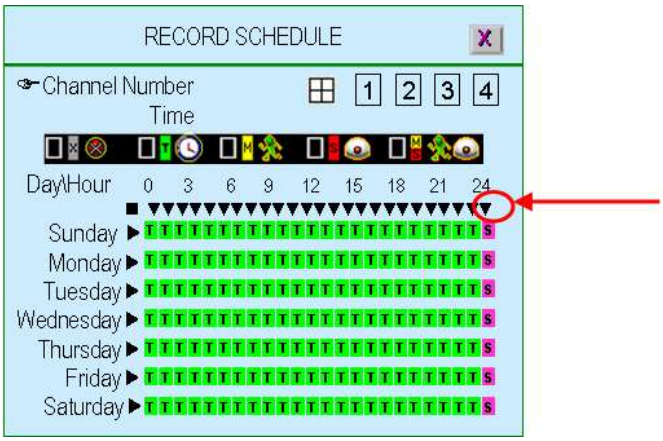


To set one whole day at the same configuration by select "▶"

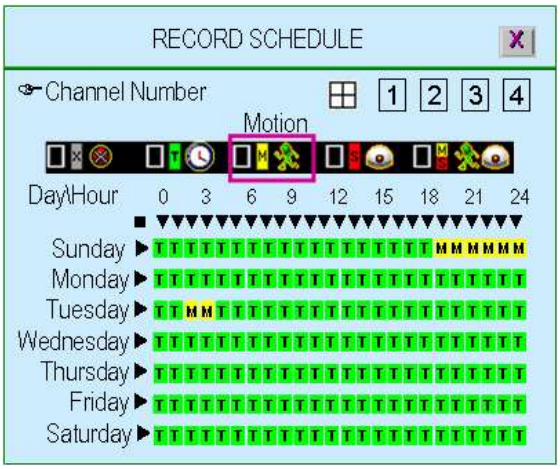
For example, Sunday is set to "Sensor" mode and Saturday to "Motion mode"



To set the specified time for each day at the same configuration by select "▼"
For example, the time frame 23:00-24:00 is set to "Sensor" mode for whole week.

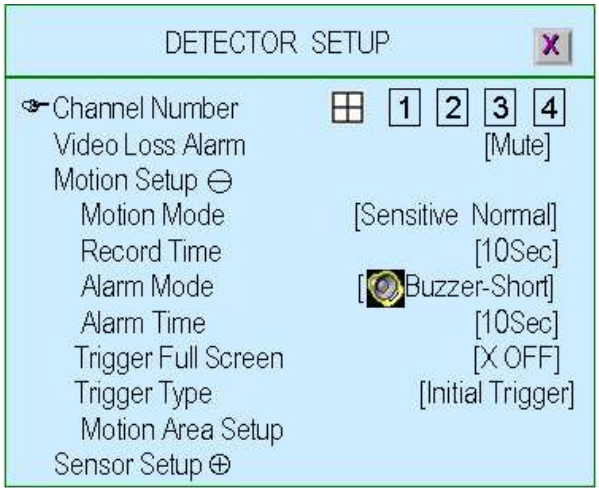


To set any time (by hour) for each day, just move to the desired daytime and select after setting the desired recording mode
For example, "Motion" mode at Sunday 19:00~24:00 and Tuesday 2:00~4:00 as following



5. Detector Setup

This menu is to adjust the motion detection sensitivity of each channel



5.1. Channel Number

To select or specify the channel for detection.

"/" (default) (Full screen mode): you can detect all channels (4/8/16) on the screen of full-screen

"1,2,3,4" or "1,2,3,4,5,6,7,8" or "9,10,11,12,13,14,15,16": you can detect each channel (4/8/16) be selected on the screen

5.2. Video Loss Alarm

To select or specify the channel for detection.

"Mute": No beep whatever video loss or not.

"Buzzer-Short": Beep shortly by buzzer on main board when video loss.

"Buzzer-Long": Beep long by buzzer on main board when video loss.

"Alarm-Short": Beep shortly by speaker of system when video loss.

"Alarm-Long": Beep long by speaker of system when video loss.

5.3. Motion Setup

5.3.1. Motion Mode

To select the motion sensitivity scale as "Sensitive OFF", "Sensitive Low", "Sensitive Normal", "Sensitive High" or "Sensitive Highest".

"Sensitive OFF": No sensitivity

"Sensitive Low": Low sensitive level

"Sensitive Normal": Normal sensitive level

"Sensitive High": High sensitive level

"Sensitive Highest": The highest sensitive level

5.3.2. Record Time

To set the motion's record time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec

5.3.3. Alarm Mode

"Mute": No beep whatever detecting.

" **Buzzer-Short":** Beep shortly by buzzer on main board when detection is active

" **Buzzer-Long"**: Beep long by buzzer on main board when detection is active

" **Alarm-Short":** Beep shortly by speaker of system when detection is active

" **Alarm-Long":** Beep long by speaker of system when detection is active

5.3.4. Alarm Time

To Setup the time period of beep by "Nonstop"(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec

5.3.5. Trigger Full Screen

To display the trigger channel on full screen when it act as 1sec, 2sec … or 30sec.

" **OFF"**: It will not display on full screen when the channel has been triggered. Also, the trigger area will turn to "red-color"

5.3.6. Trigger Type

There are two trigger types: "Initial Trigger" and "Continuous Trigger" for selection.

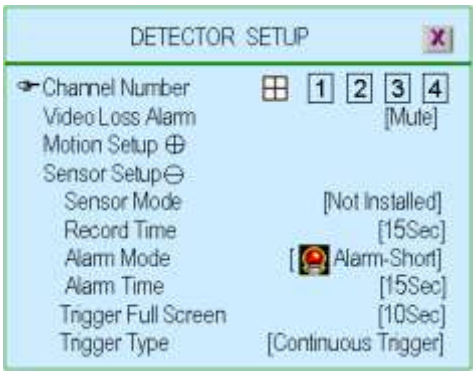
Initial Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel will ignore any other trigger.

Continuous Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel is still watching out. If another trigger act, the channel will display on full screen and count all over again by the setting time period.

5.3.7. Motion Area Setup

Block one area on screen for each channel as motion detection area. It can be done by mouse or by using ▲(↑), ▼(↓), ◀◀ (◀), ▶▶(▶) buttons to move the area. After positioning, press "🕮" and save it

5.4. Sensor Setup



5.4.1. Sensor Mode

Set the sensor mode as "Not Installed", "Normal-Open" or "Normal-Close".

5.4.2. Record Time

To set the sensor's record time as 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 45sec, 60sec, 90sec, 120sec, 150sec or 180sec.

5.4.3. Alarm Mode

To set the motion detector alarm mode.

"Mute": No beep whatever detecting.

"**Buzzer-Short"**: Beep shortly by buzzer on main board when detection is active

"**Buzzer-Long"**: Beep long by buzzer on main board when detection is active

"**Alarm-Short":** Beep shortly by speaker of system when detection is active

"**Alarm-Long"**: Beep long by speaker of system when detection is active

5.4.4. Alarm Time

To Setup the time period of beep by "Nonstop"(no stop), 5sec, 10sec, 15sec, 20sec, 25sec, 30sec, 35sec, 40sec, 45sec, 50sec, 55sec or 60sec

5.4.5. Trigger Full Screen

Display the trigger channel on full screen when it act as 1, 2sec … 30sec.

"**OFF"**: It will not display on full screen when the channel has been triggered.

5.4.6. Trigger Type

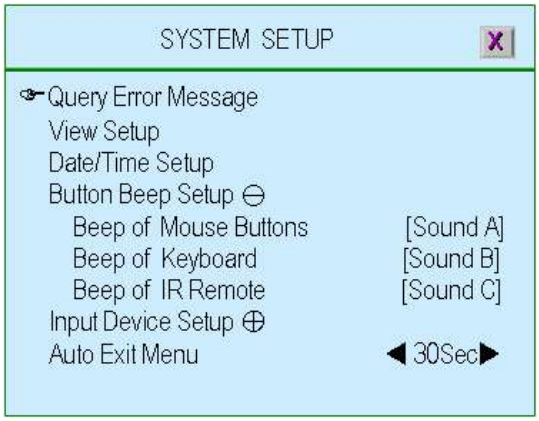
There are two trigger types: "Initial Trigger" and "Continuous Trigger" for selection.

Initial Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel will ignore any other trigger.

Continuous Trigger: When channel has been triggered, it will display on full screen as the setting time period. In that time period, this channel is still watching out. If another trigger act, the channel will display on full screen and count all over again by the setting time period.

6. System Setup

To set up the Password, time, date and button beep…etc.



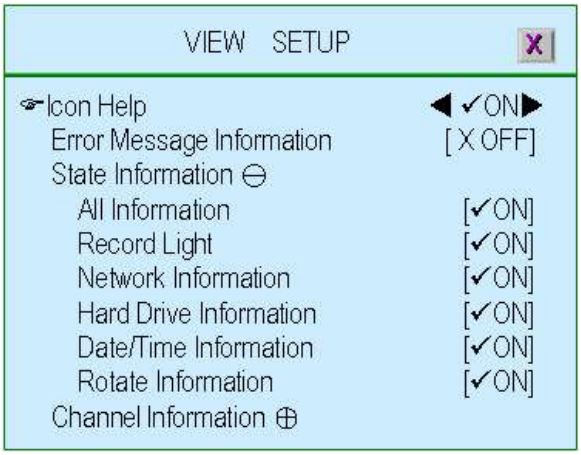
6.1. Query Error Message

The listing of DVR error message.

"**":** Show error message with time. **" ▶" :** Clear all error messages.

6.2. View Setup

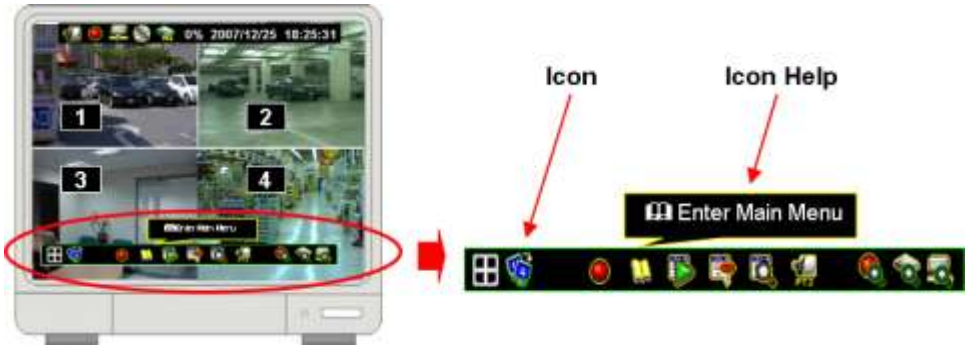
To setup the illustration and DVR information will be displayed or not.



6.2.1. Icon Help

"ON" - Icon help will be shown, **"OFF"** –Icon help will not be shown

Please refer to 1.5 Icons for more detail information



6.2.2. Error Message Information

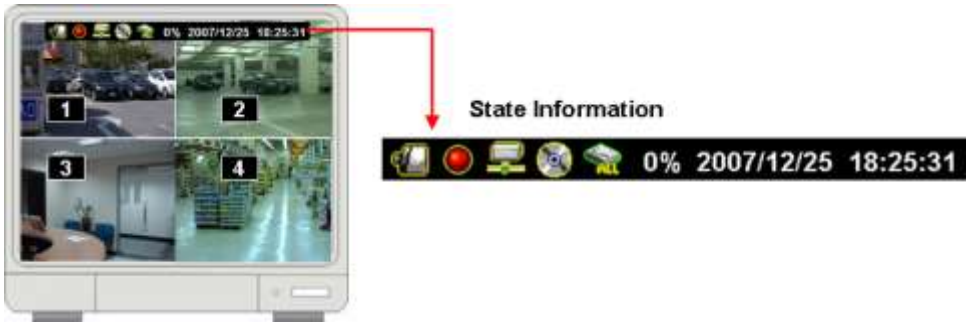
"✓ON" - Save/display the error message

"XOFF" – Without save/Display the error message

6.2.3. State Information

System status information, it includes record light, network information, hard drive information, date/time information and rotate information. All information can be set separately to be seen or not.

Please refer to 1.4 State Information for more details.



6.2.4. Channel Information

Channel information includes channel number, channel name, record light, video loss, record mode, detector mode and alarm view. All information can be set separately to be seen or not.

: Channel Number

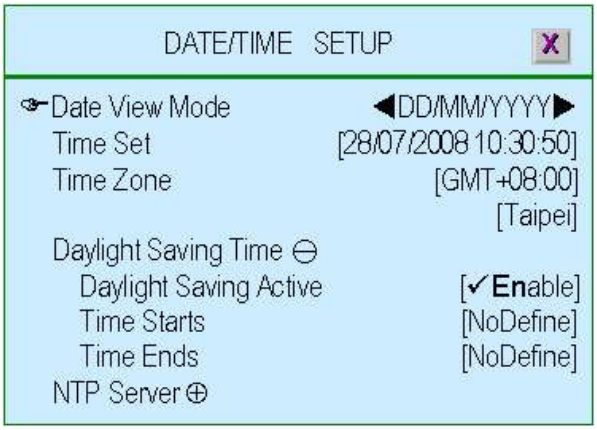
: Recording status **: Video Signal Status**

: Detection mode and status (Flash if sensor has been triggered)

: Alarm Active **: Buzzer active**

6.3. Date/Time Setup

To setup the date and time



6.3.1. Date View Mode

To display the date/time format on state information by DD/MM/YYYY, MM/DD/YYYY or YYYY/MM/DD. (YYYY-Year, MM-Month, DD-Day)

6.3.2. Time Set

To setup the day / time.

▲ / ▼ (↑ / ↓): Up / Down – Change the number

◀◀ / ▶▶ (◀ / ▶): Move left/right to the character that need to change

🕮 **:** Exit after confirmed setting

6.3.3. Time Zone

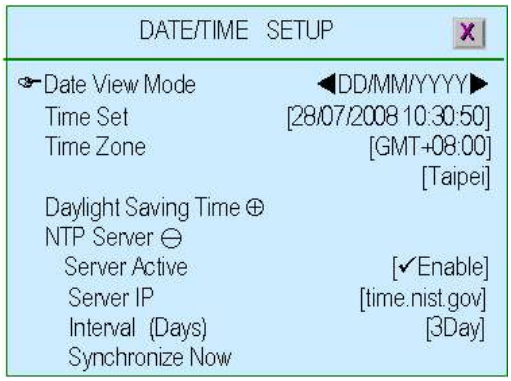
Set the time zone where you are located.

6.3.4. Daylight Saving Time

Set daylight saving time period by specify the Month, Week, Day and Hour

6.3.5. NTP Server

Synchronize DVR day/ time to NTP server through internet.



♦ **Server Active**: "✓Enable"-To set this function available. " X Disable"- Ignore this function

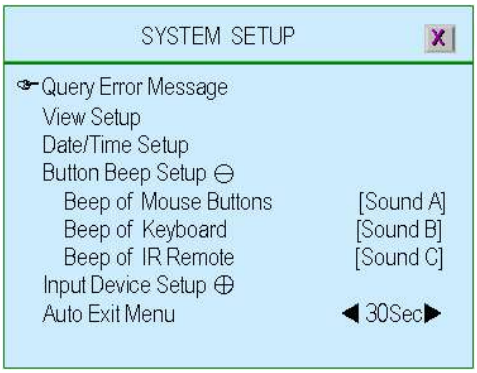
♦ **Server IP:** The IP address of NTP server

♦ **Interval (Days):** Set how many days to synchronize

♦ **Synchronize Now:** Select it to start Synchronizing the NTP server

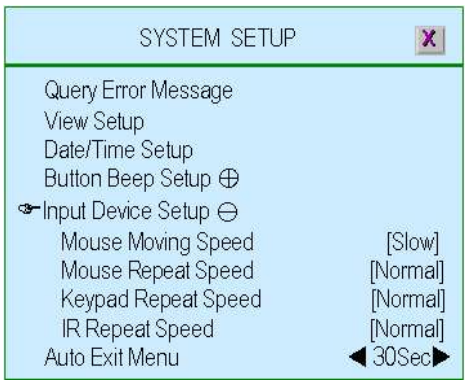
6.4. Button Beep Setup

To setup the beep type when press the button of mouse, keypad or IR remote. There are four modes: mute, sound A, sound B, sound C



6.5. Input Device Setup

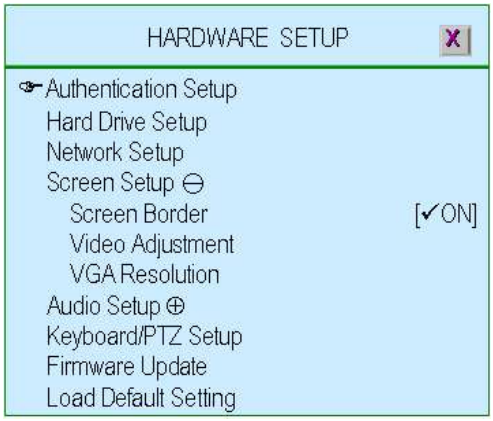
To setup the speed of input device: mouse, mouse repeat, keypad and IR remote as Slow, normal or fast



6.6. Auto Exit Menu

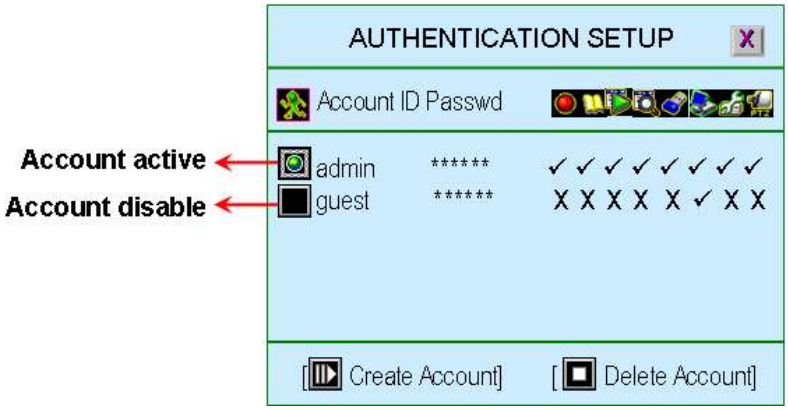
To setup the time period to exit menu automatically by choose “OFF” (not exit unless pressing “🕮”), 10sec, 20sec, 30sec, 40sec, 50sec or 60sec.

7. Hardware Setup



7.1. Authentication Setup

Specify the limits of authority of user and set its own password.



“”: To create a new account. “”: To delete account.

“◀◀ (◀), ▶▶(▶)” Set account within certain limits by set it as “✓”as permitted or no permitted as “X”

(Account Active): The account is active

(Account Disable): The account is not active

Account ID (account name): Enter characters as account ID

Passwd (Password): By entering six characters or numbers as password.

The password will replace by “******” when any user login from network.

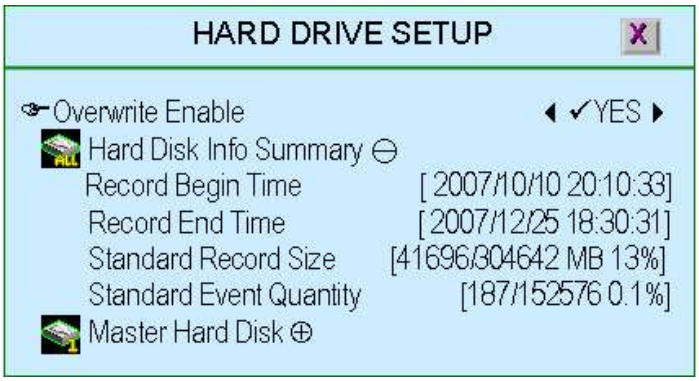
Remark:

♦ If all accounts are disabled or no account has been created, there is no authority issue for the DVR system

♦ If one function has been disable for all users. It means that function do not need password for setting.

7.2. Hard Drive Setup

To set up the hard drive information and overwriting function



7.2.1. Overwrite enable

"✓YES": Enable to overwrite hard drive when capacity is full

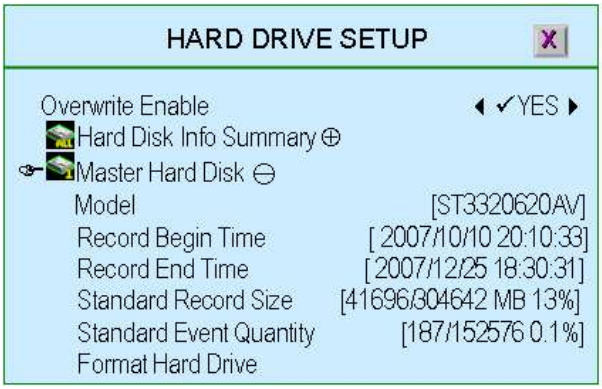
"X NO": Not permit to overwrite hard drive when capacity is full.

7.2.2. Hard Disk Info Summary

All hard drive Information in summary

- **Record Begin Time:** The starting day/time of hard drive recording
- **Record End Time**: The latest day/time of hard drive recording
- **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.
- **Standard Event Quantity**: The capacity has been record of event / Total capacity for event.

7.2.3. Master Hard Disk



The Mater hard drive Information in summary

- **Model:** Model of master hard drive.
- **Record Begin Time:** The starting day/time of hard drive recording
- **Record End Time**: The latest day/time of hard drive recording

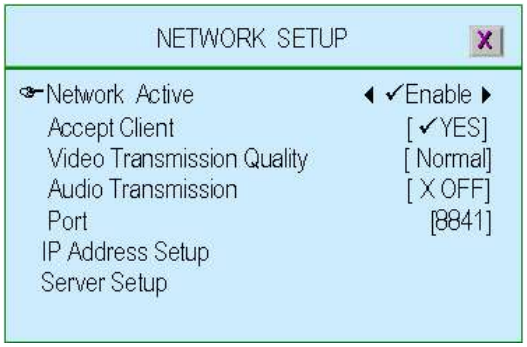
• **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.

• **Standard Event Quantity**: The quantity has been record of event / Total quantity for event.

• **Format Hard Drive:** To format the hard drive. If the system is running at recording mode, it is not permitted to format the hard drive and show a warning …

7.3. Network Setup

To set up Network configurations



7.3.1. Network Active

"✓ Enable": Network is permitted to be used

"X Disable": Network is not permitted to be used

7.3.2. Accept Client

"✓YES" to enable the network client function.

"X NO" means there is no network client available.

7.3.3. Video Transmission Quality

Setup the quality of Video Transmission as High, Normal or Low.

7.3.4. Audio Transmission

"✓ON": Enable or **"X OFF"**: Disable audio transmission

7.3.5. Port

Assign a communication port (a series of number).

7.3.6. IP Address Setup

The IP address acts as a locator for one IP device to find another and interact with it.

There are two kinds IP types: Static IP address and Dynamic IP address (DHCP and PPPoE) for selection.

♦ **Static IP Address:** When a computer uses the same IP address every time it connects to the network, it is known as a Static IP address Static IP addresses are manually assigned to a computer by an administrator

♦ **DHCP:** With dynamic IP addresses, where an IP address is automatically assigned to a computer by a remote server which is acting as a Dynamic Host Configuration Protocol (DHCP) server

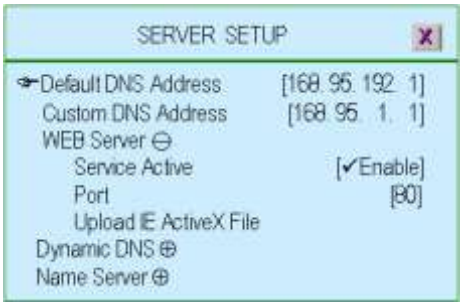
♦ **PPPoE:** Dialup and some broadband networks do not use DHCP, but instead use the dynamic IP addressing capability of the Point-to-Point Protocol over Ethernet.

♦ **GATEWAY**: Gateway IP address, please check with your M.I.S staff or administrator to enter the setting.

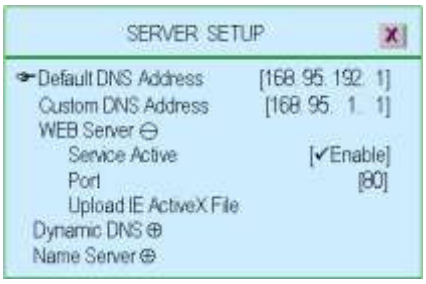
♦ **SUBNET MASK:** Subnet mask is a range of logical addresses that is assigned to an organization. Please check with your M.I.S staff or administrator to enter the setting

♦ **MAC Address:** It is a number that acts like a name for a particular network adapter. It has been set at dedicated address even reset the DVR.

7.3.7. Server Setup



- **Default DNS Address:** The Domain Name system (DNS) translate hostnames to IP addresses (default setting). If there is no customer DNS address setting or fail, DVR will go for Default DNS Address.
- **Custom DNS Address:** The Domain Name system (DNS) translate hostnames to IP addresses (customer setting).
- **WEB Server:** DVR WEB Server response the requests from browsers, and serve remote monitoring through IE Browser.



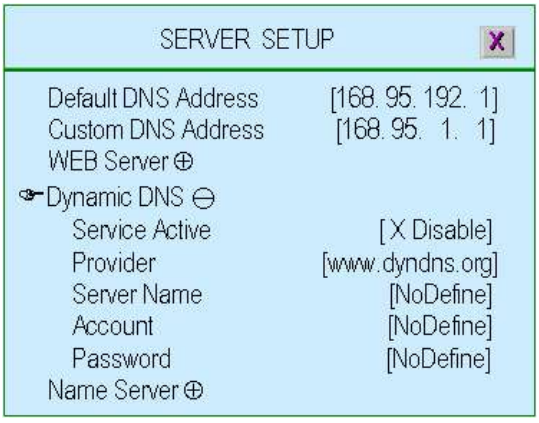
"Service Active": Enable the Web Server service.

"Port": Assign a port as the Web Server

"Upload IE ActiveX File": Upload Active-X component to DVR for PC (IE Browser) using.

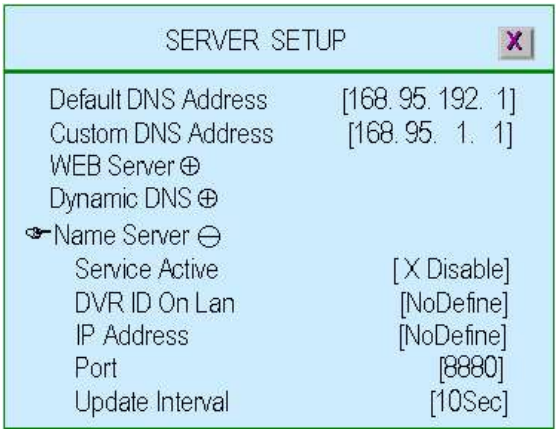
To get Active-X component from CD as attached and save it into USB disk. Then plug the USB disk into DVR for installation.

- **Dynamic DNS:** Dynamic DNS is a system which allows the domain name data held in a name server to be updated in real time.



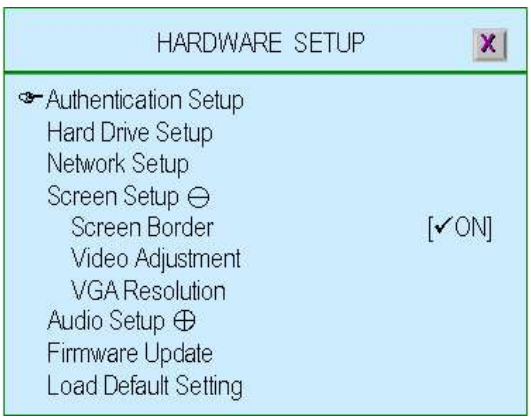
"Service Active": Enable the Dynamic DNS service.
"Provider": The web site / IP Address of Dynamic DNS provider
"Server Name": To define a name of Dynamic DNS
"Account": The account name of Dynamic DNS
"Password": Password for Dynamic DNS
Please refer to **DDNS Service**

♦ **Name Server:** Name Server implements a name-service protocol. It will normally map a human-recognizable identifier (such as domain name) of a host to its computer-recognizable identifier (such as IP address).



"Service Active": Enable the Name Server
"DVR ID on LAN": The DVR ID on LAN (define a name of DVR)
"IP Address": IP address of Name Server (refer to Name Server information)
"Port": The Port of DVR on LAN
"Update Interval": Time period to update data.

7.4. Screen Setup



7.4.1. Screen Border

"✓ON" : To enable the border, **"X OFF":** To disable the screen border.

7.4.2. Video Adjustment

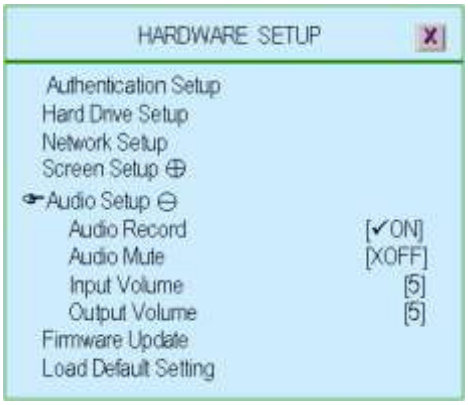
Adjust the whole picture to right/left or up/down by press ◀◀/▶▶(◀ / ▶) or ▲ / ▼ (↑ / ↓). **"/ / " :** Set it as default location

7.4.3. VGA Resolution

To choose the resolution of VGA as 640x480, 800x600, 1024x768 or 1280x1024.

7.5. Audio Setup

To setup the audio status including of audio record, audio mute, input volume and output volume.



7.5.1. Audio Record

"✓ON": Enable audio recording. **"X OFF"**: Disable audio recording

7.5.2. Audio Mute

"✓ON": Switch on the audio function

"X OFF": Switch off the audio function

7.5.3. Input Volume

"X OFF": Turn off the audio input volume

"1,2,3,4…….10": Adjust audio input volume from small to aloud.

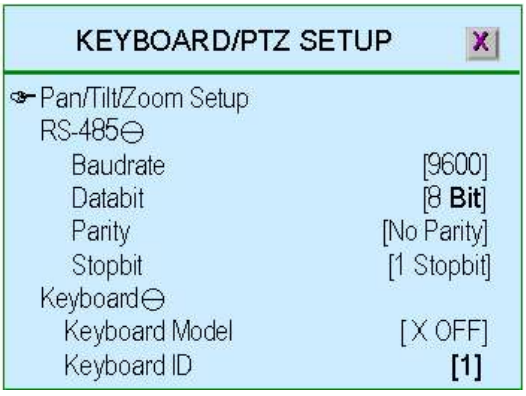
7.5.4. Output Volume

"X OFF": Turn off the audio output volume

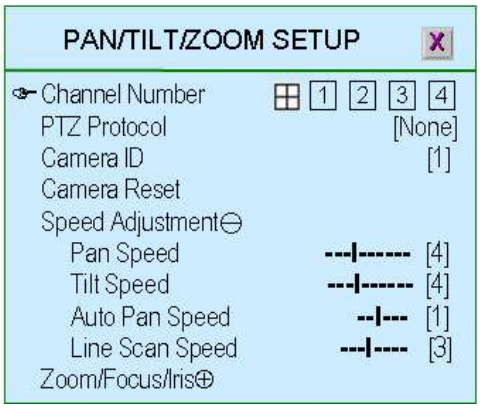
"1,2,3,4, …….10": Adjust audio output volume from small to aloud.

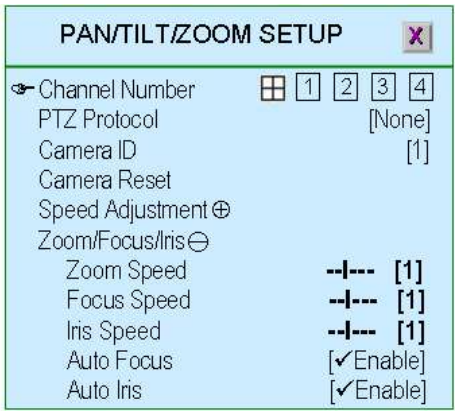
7.6. Keyboard/PTZ Setup

To setup PTZ camera and control keyboard.



7.6.1. Pan/Tilt/Zoom Setup





"Channel Number": Dedicated the PTZ camera channel

"PTZ Protocol": Select PTZ camera's protocol as Pelco P, Pelco D, Teleview Pelco P, Teleview Pelco D, Merit LILIN (3B), Merit LILIN (7B), HiSharp, Nicecam and Elitar.

"Camera ID": Setup the ID of PTZ camera (meet camera's local setting)

"Camera Reset": To reset PTZ camera

"Speed Adjustment": To adjust Pan/Tilt/Auto Pan/ Line Scan Speed.

"Zoom/Focus/Iris": To adjust Zoom/Focus/Iris speed.

And Enable/Disable the Auto Focus/Auto Iris function.

7.6.2. RS-485

"Baudrate": Select the baud rate of PTZ camera as 1200, 1800, 2400, 4800, 9600, 14400, 19200, 38400, 57600 or 115200.

"Databit": Setup data bit as 8bit or 7bis.

"Parity": Setup parity as No Parity, Even or Odd.

"Stopbit": Setup stopbit as 1 or 2.

7.6.3. Keyboard

"Keyboard Model": None for no keyboard connected or CK101/CK201

"Keyboard ID": Setup the ID of Keyboard (Meet Keyboard's local setting)

"Keyboard Protocol"(only for certain keyboard model): Select keyboard's protocol as Pelco P, Pelco D, HiSharp, Elitar, MIT, Merit LILIN, Nicecam and Fine.

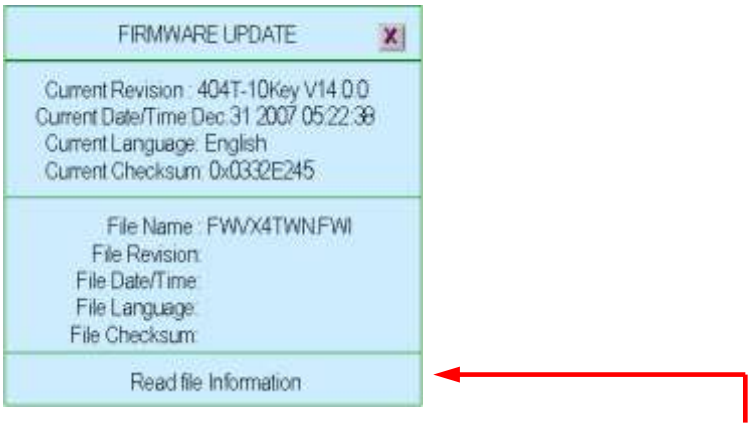
7.7. Firmware Update

To update or upgrade the DVR firmware by USB disk..

Plug the USB disk into USB port on DVR front panel

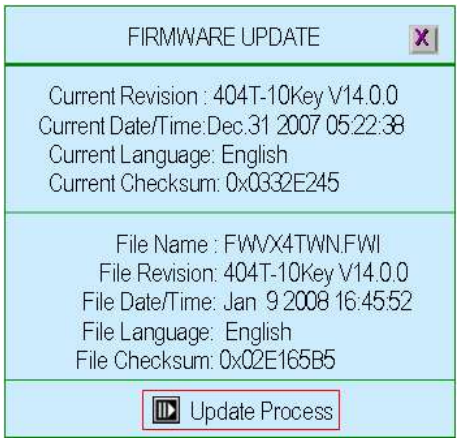
Plug the USB disk into USB port on DVR front panel

After plug in USB disk, it shows" **Read file Information**" on the button line

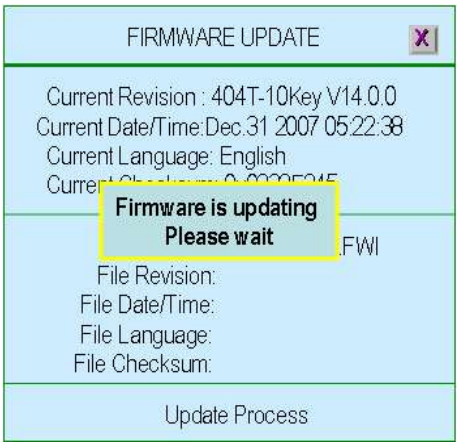


If something mistake for USB disk or file, it will show: **File not found or Disk Error** on the button line. Please check USB disk or file and plug in again.

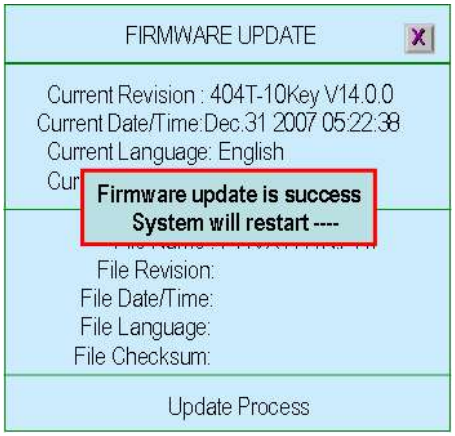
After complete the firmware reading, it shows "Update Process" and blanking on the button line as following. Also, the updated firmware information will be listed. Press "" to start the procedure of firmware update



When DVR is updating the firmware, it shows "**Firmware is updating, Please wait**" as following figure:



After firmware update is completed, it will show: **Firmware update is success, System will restart ----**" and restart DVR with the same configuration at previous version firmware does.

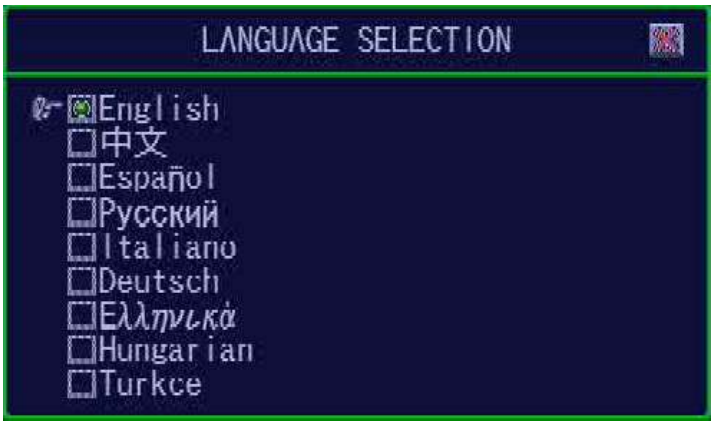


7.8. Load Default Setting

To reset all the DVR configuration as default setting.

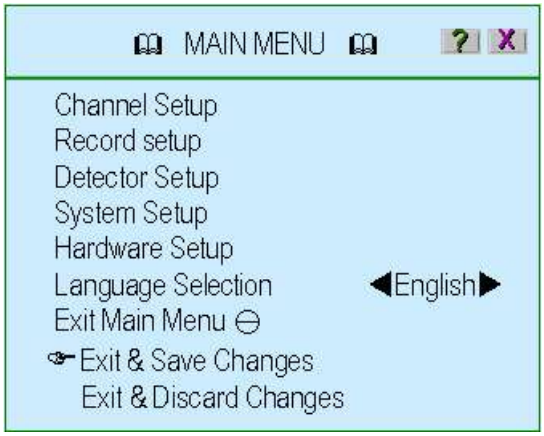
8. Language Selection

Multilingual supports with English, Traditional Chinese, Spanish, Russian, Italian, German, Ukrainian, Hungarian and Turkish.



9. Exit Main Menu

To exit menu and save / discard the changes.

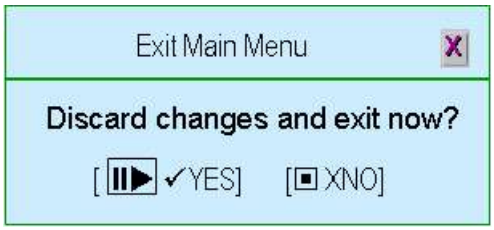


9.1. Exit & Save Changes

To Exit menu and save all configuration changes.

9.2. Exit & Discard Changes

To exit menu but without saving the configuration changes.



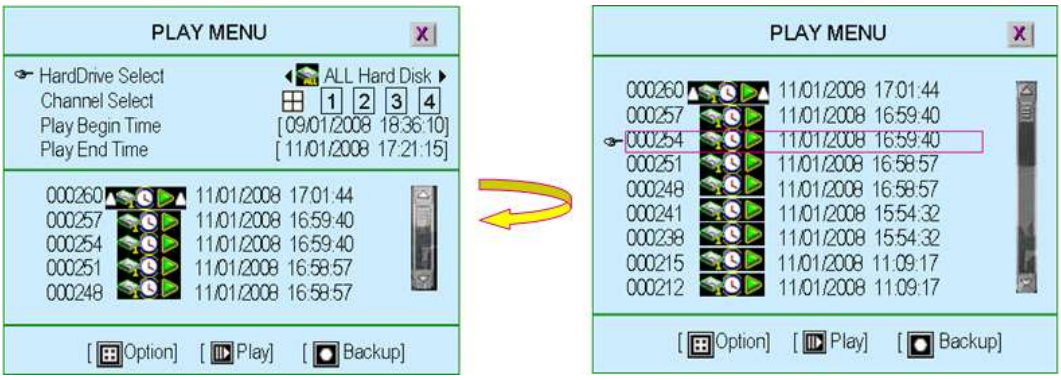
Playback

Press "▶" (or "II▶") button or icon to enter Play menu

- **HardDrive Select:** To select or specify which hard drive's data will be playback.
- **Channel Select:** To setup or specify which channel's data will be playback
- **Play Begin Time:** To specify the beginning time to playback
- **Play End Time:** To specify the beginning time to playback.

The other area shows the recorded data for choosing to play.

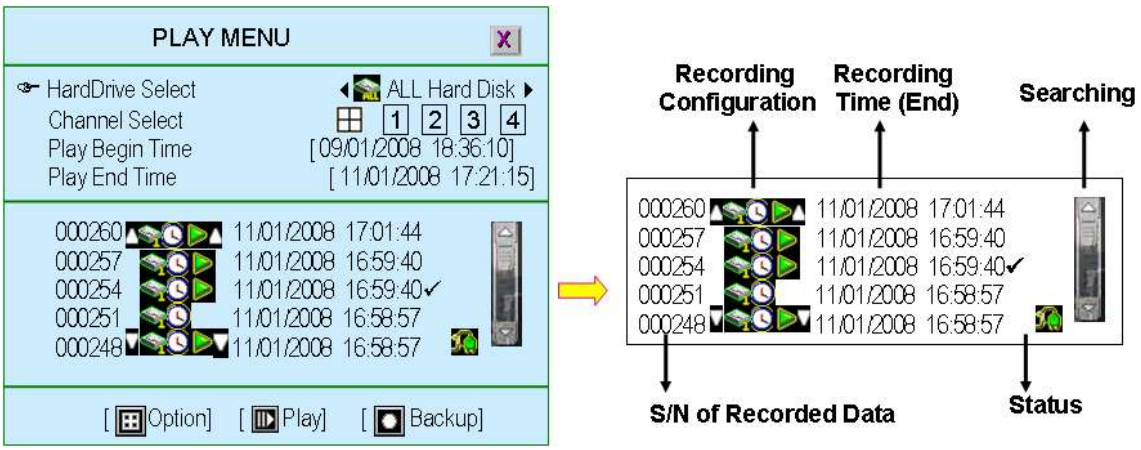
Option: Window switching as following



Play: Start to play the recorded data After the data has been played, it will show "✓"

Backup: To backup the recorded data. Please refer to "Backup" section

Commands and Recorded Data status:



- **S/N of Recorded Data:** Series Number of recorded data provide by system
- **Recording Configuration**

  / : The beginning / end of recorded data.

  : The dedicated hard disk data

  : The recording mode

  : The data can be play.

  If this icon does not show up, it means it is an event without video recording data.

- **Recording Time:** The date/time of recorded data
- **Status**

  ✓ : The recorded video data has been played.

  : Power-OFF event occur.

- **Searching:** A bar to search recorded data by mouse for more convenient.

Data Backup by USB

Press "▶" (or "II▶") button to enter the Play menu.

- **HardDrive Select:** To select or specify which hard drive's data will be backup
  Use **"▲▼(↑/↓)"** button and move to the dedicated recorded data that you want to backup Press"⏺" to enter the "Backup Menu" as following.
  It shows the backup menu with Disk information on the upper area and the recorded data that you have selected at "Play Menu" at the lower area.

- **Hard Drive:** It has been selected at "Play Menu" to specify which hard drive's data will be backup
- **Backup Device:** System offers two backup device selections: CDRW and USB disk. CDRW is executable only the DVR is equipped with CDRW.
- **Free Capacity:** System will count the free size of CDRW/USB automatically after inserting the backup device.

1. Backup by USB

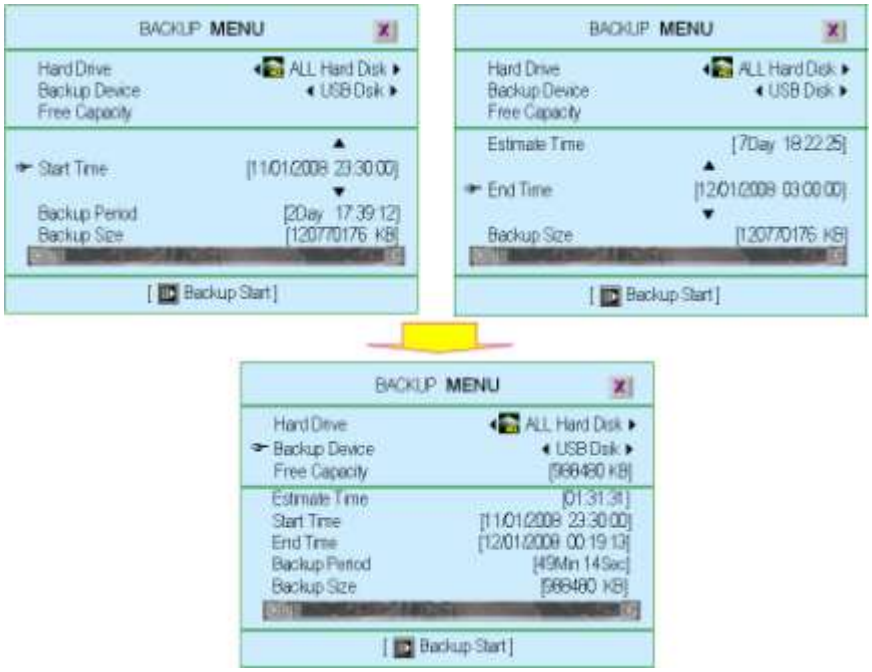
The DVR support the data backup by USB memory stick on the front panel.

You can change the time period of recorded data for backup by setting the “Start Time” and “End Time” and plug in the USB disk.

The “Free Capacity”, “Estimate Time”, ”Backup Period” and “Backup Size” will be changed automatically.

Also, it will correct the “Start Time” and “End Time” as the time period which has video recorded data.

Press “”, it start to backup data into USB disk.



2. Backup by CDRW

The DVR support the data backup by CDRW.

You can change the time period of recorded data for backup by setting the “Start Time” and “End Time” and put the CD into CDRW.

All the time setting is the same as USB backup.

CDRW takes more time to backup than USB does.

Event Search

Press "↟" (or "▲") button or icon to enter Event search menu

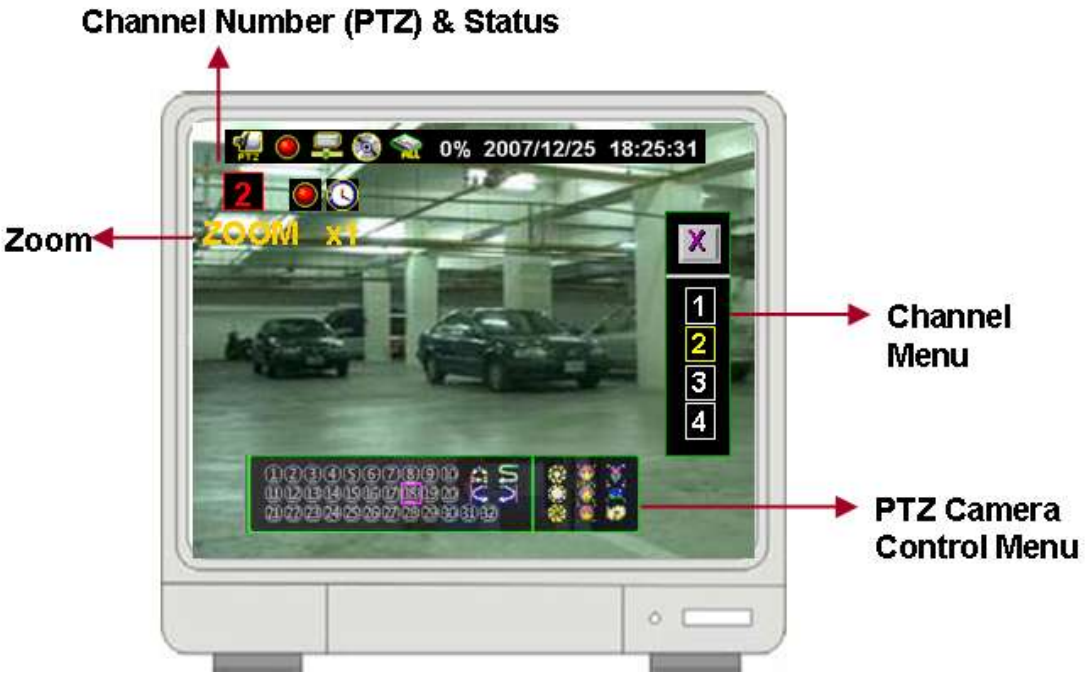
- **HardDrive Select:** To select or specify which hard drive's event will be search.
- **Channel Select:** To setup or specify which channel's event will be search.
- **Filter Type:** To specify the filter type as All Events, General Events, Record Events, Trigger Events, Hardware Events, Warning Events,
- **Filter Time Setup**.

- **Active Filter Time:** Enable/Disable Filter time of event
- **Filter Begin Time:** To specify the beginning time of event filter
- **Filter End Time:** To specify the beginning time of event filter
- **Time Reset Range:** To reset the event search time period according to all effective events as recorded. .

Option: Working window switching for setting/Event content display.
Play: Start to play the event which has been selected
Backup: Backup the event which has been selected

PTZ

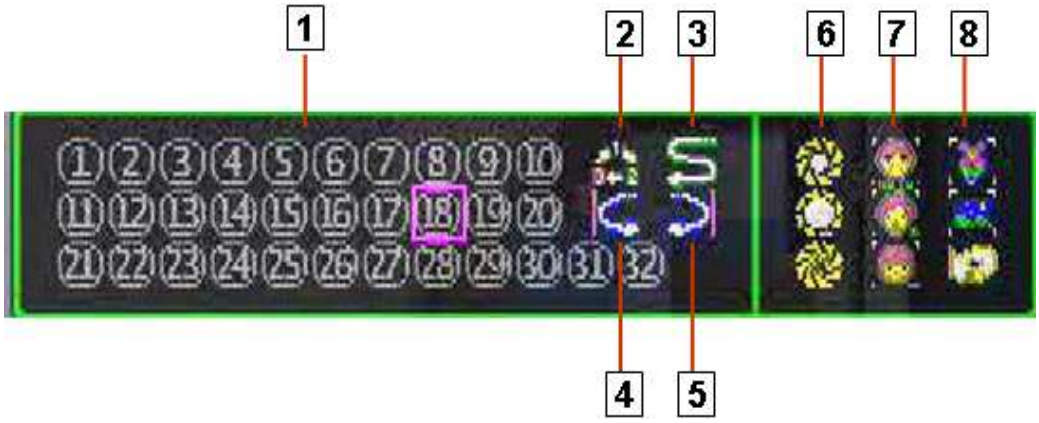
Press "■" button or icon to enter Pan/Tile/Zoom Control menu



Zoom: This function depends on PTZ camera model, NOT every PTZ camera will show it.

Operating Icons:

Icon	Command
	Enter PTZ channel menu shown on the right side of screen. (if channel number in Yellow-color, it performs as PTZ camera)
↵	Enter PTZ control menu shown at the bottom of screen.
⇨	Move Right
⇗	Move to Top Right
⇧	Move Top
⇖	Move to Top Left
⇦	Move Left
⇙	Move to Bottom Left
⇩	Move Bottom
⇘	Move Bottom Right
↩	Turn Over



No.	Command
1	Preset (1 ~32) (Mouse-Left Button): Call Preset (Mouse-Right Button): Setup Preset Position (Mouse-Right Button 2sec): Clear Preset Position
2	: Auto Pan Start : Auto Pan Stop
3	: Line Scan Start : Line Scan Stop
4	:Set Left Limit (Line Scan)
5	: Set Right Limit (Line Scan)
6	: Auto Iris, : Iris Open : Iris Close
7	: Auto Focus : Focus Near : Focus Far
8	: Zoom In, : Zoom Out : Goto Origin

PC Connection through Local Area Network (network hub)

1. Search Router IP Address

Please click “Start” and then “Run” option under Windows.

Please enter “CMD” and then “OK”

Please enter “ipconfig” on DOS prompt, and then record the Address Number of Default Gateway as shown: It is the Router’s IP Address.

ipconfig
Router IP Address
C:\WINDOWS\system32\cmd.exe
C:\>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
IP Address. . . . . : 192.168.11.29
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.11.1
C:\>

- **Find out your DVR IP address**

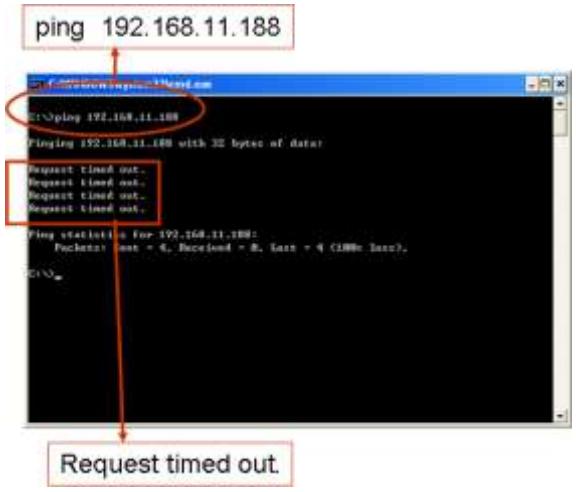
Please power off the DVR.

Because this Router IP address is 192.168.11.1 ,

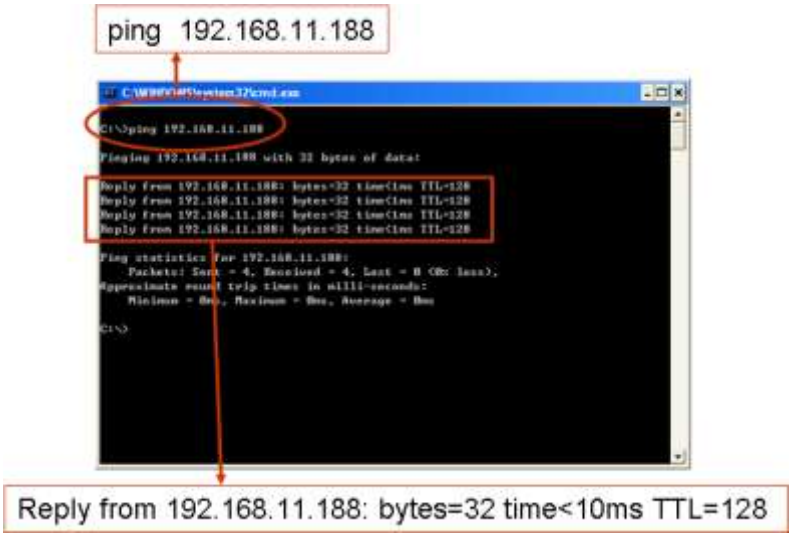
The network domain is 192.168.11.xxx，

Generally usable IP Address is between 192.168.11.2~192.168.11.253，

The suggested IP Address is from 192.168.11.160 to 192.168.11.199.
Please search IP Address that is not being used at present.
Please enter “ping 192.168.11.188” on DOS prompt (as following figure for reference)
If it appears “Request timed out” messages that means this IP address is not being used at the moment and can be used for the DVR



If it appears “Reply from 192.168.11.188: bytes=32 time<10ms TTL=128” messages as following that means this IP Address [192.168.11.188] has been used. Please try to find out another IP Address that is not being used.



Then, go back to DVR menu: “Network Setup” to enter IP address.

- IP ADDRESS: Enter the DVR’s address [192.168.011.188]

- GATEWAY: Enter Router IP Address[192.168.011.001]
- NET MASK: 255.255.255.0
- PORT: Enter the DVR's port number [14338 14337]

2. DDNS Service

For DVR only can set at static IP address and no support the dynamic IP. If you have to use dynamic IP that it recommend serving as DDNS service.

DDNS is a service the maps internet domain names to IP address and works with dynamic IP address (assigned by ISP server).

Remark: A router is needed as the interface between PC and DVR when DVR is under internal network environment.

2.1. Registration of DDNS Service

There are three suggestions for DDNS:

www.no-ip.com, www.changeip.com and www.dyndns.com

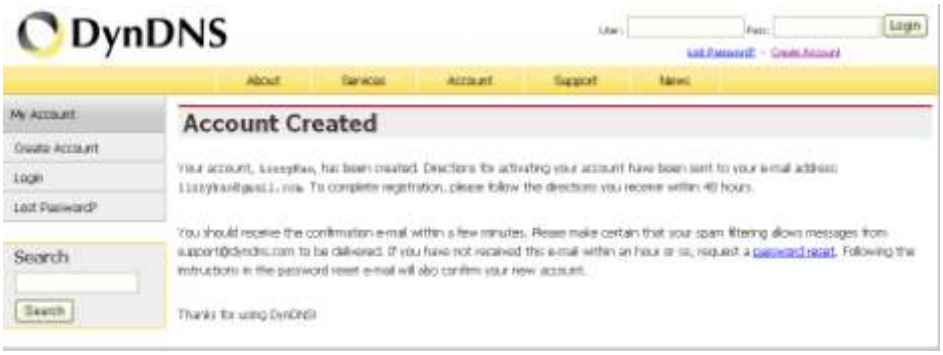
The following will use DDNS website: http://www.dyndns.com as example.

Create Account at the first beginning after entering DynDNS (DDNS service) website.

2.2. Create Your DynDNS Account

Click the Create Account, and then start to create your own DynDNS Account and fill out all the blanks for account's application as following:

After you click **"Create Account",** it shows **"Account Created"**.

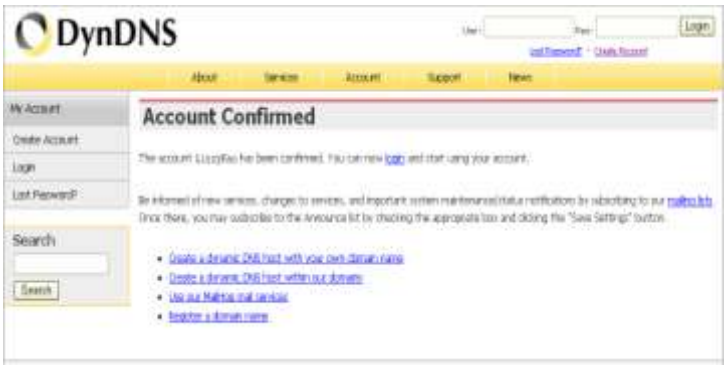


Also, DynDNS will create a new account for you and send you an e-mail to the address you provided. It needs to confirm your account within 48 hours after receiving the e-mail or it will automatically delete your account.

Your DynDNS Account Information
DynDNS Support
2007年11月30日 上午 08:56
Your DynDNS Account Information
Your DynDNS Account " DVR " has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process.
https://www.dyndns.com/account/confirm/qMAlozR5sLqNIAyeTCfdAA
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.
If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.
Sincerely,
The DynDNS Team

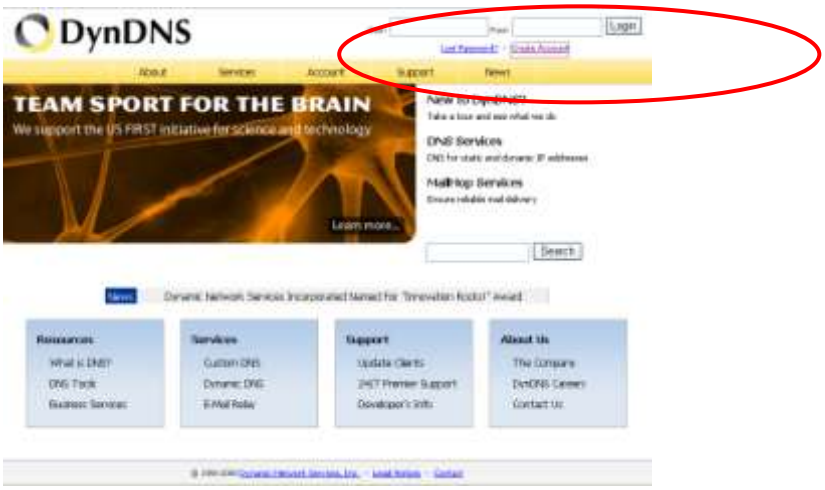
Just click the https://www.dyndns.com/account/confirm/qMAlozR5sLqNIAyeTCfdAA

To confirm the account



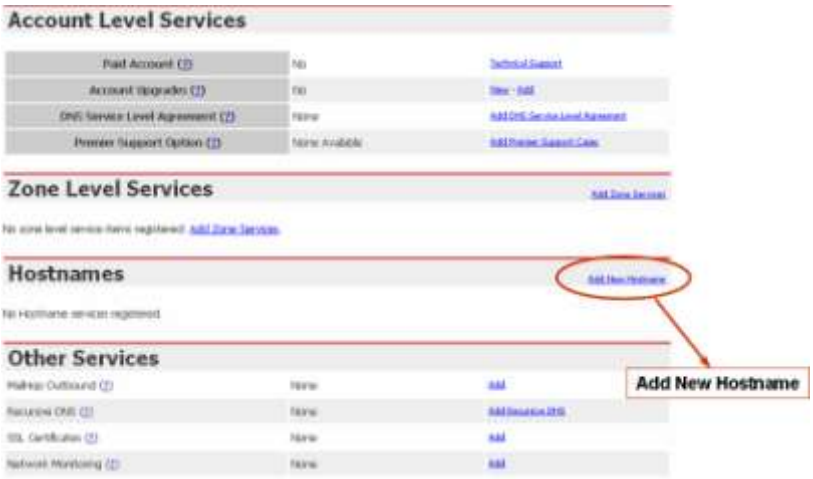
2.3. Logged In and Host Service

Login by enter the Username and password.



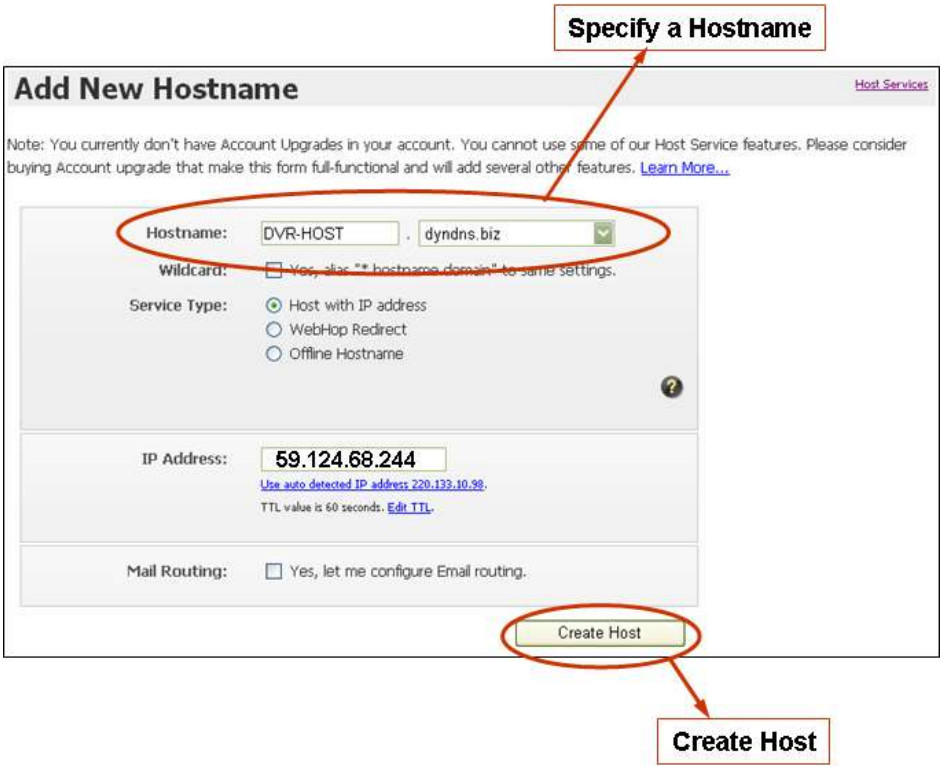
Then, go to "**My Service**" to get a host name

Double click **"Add New Hostname**" as following:



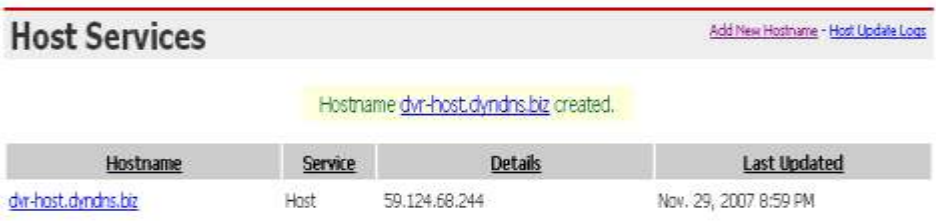
Specify the Hostname for DDNS IP which will be applied to the DVR's DDNS setting.

We take DVR-HOST.dyndns.biz as an example, and click "Create Host"


Specify a Hostname
Add New Hostname
Host Services
Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. Learn More...
Hostname:
DVR-HOST
dyndns.biz
Wildcard:
Service Type:
Host with IP address
WebHop Redirect
Offline Hostname
IP Address:
59.124.68.244
Use auto detected IP address 220.133.10.98.
TTL value is 60 seconds. Edit TTL.
Mail Routing:
Yes, let me configure Email routing.
Create Host
Create Host

Now, the DDNS service is completed.

Well keep the User name, Password and Hostname



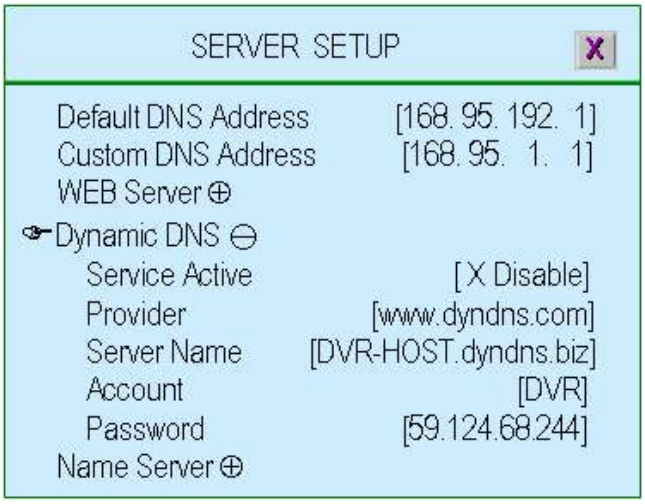
2.4. Router Setting

Most of the setting of router is identical, here is the suggestion:

- Specify DDNS service provider: DnyDNS.org (dynamic)
- Specify DDNS IP by DDNS account (user name / password)
- Specify DVR IP as private IP setting
- Specify one pair of connection port (control port / streaming port) , like”8841”

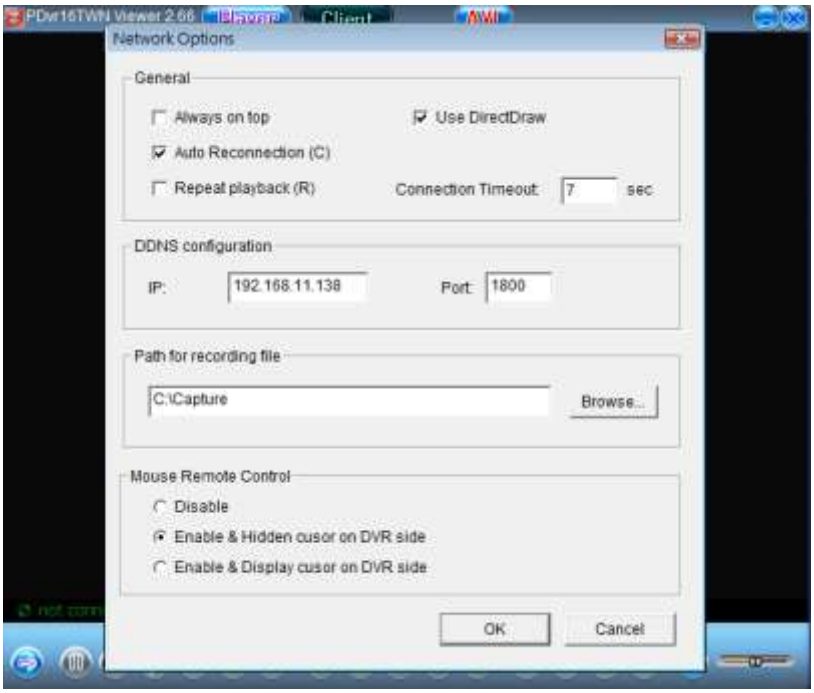
2.5. DVR DDNS Setting

After complete the DDNS account application, go to DVR server setup menu and input the DDNS information for network connection.



2.6. PC Client Setting

Enter the “Option” at PC Client to setup Network Options-DDNS configuration.



PC Client & PC Viewer

PC Client is applied for remote monitoring, recording, playback, backup and control of 4/8ch video and 1ch audio. Also, you can capture, convert the video from the unit into AVI file or JPEG file, or play the stored video later on.

PC Viewer is developed for viewing recorded video, taking snapshot and converting video to AVI format on PC which supports Windows2000/Windows XP/VISTA

1. DirectX

Before installing PC Client / PC viewer into your PC, please make sure DirectX 9.0 or above has already existed. You can refer to Microsoft Download Center: http://www.microsoft.com/downloads/ or Insert the CD that DVR to choose “Download DirectX” as following to download the program and complete the installation.

Direct X Setup	Direct X 安裝
Download Direct X	下載 Direct X
Codec Pack Setup	Codec Pack 安裝
Download K_lite_codec	下載 K_lite_codec
Active - X Setup	Active - X 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
PC Client/PC Viewer Setup	PC Client/PC Viewer 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
User Guide	使用手冊
4-8-16CH Triplex DVR	4-8-16路三工數位錄放影機

2. PC Client/PC Viewer Program Installation

After DirectX has been installed, place the CD into PC to start the PC Viewer installation. You will see a table list as following to choose 4/8/16CH DVR at “PC Client/PC Viewer Setup” for installation.

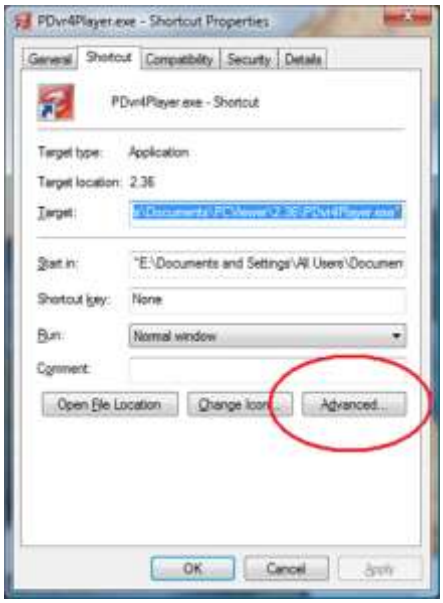
Direct X Setup	Direct X 安裝
Download Direct X	下載 Direct X
Codec Pack Setup	Codec Pack 安裝
Download K_lite_codec	下載 K_lite_codec
Active - X Setup	Active - X 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
PC Client/PC Viewer Setup	PC Client/PC Viewer 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
User Guide	使用手冊
4-8-16CH Triplex DVR	4-8-16路三工數位錄放影機

3. Open Disk Operating in VISTA

It must setup PC Viewer / PC Client properties at VISTA operating system when you want to open disk including of Hard drive and USB disk before start running.

Step 1: Go to PC Viewer Properties setting……..

Choose **“ Advanced”** at **Shortcut** setting.

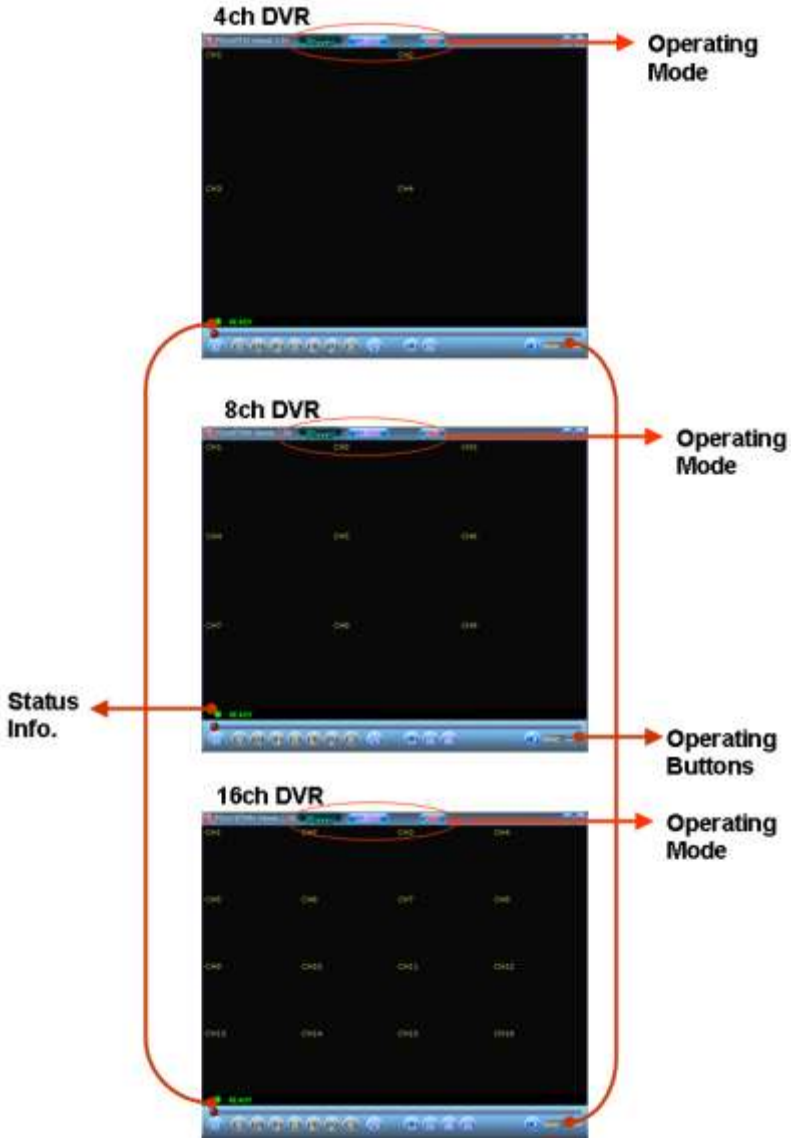


Step 2: At Advanced Properties, enable **"Run as administrator"**,
Then, press OK to complete PC Client properties setting.

Advanced Properties
Choose the advanced properties you want for this shortcut.
Run as administrator
This option allows you to run this shortcut as an administrator, while protecting your computer from unauthorized activity.
Run in separate memory space
OK
Cancel

4. PC Viewer Operating Guide

By press "Player" to act the operating at PC Viewer operating environment.

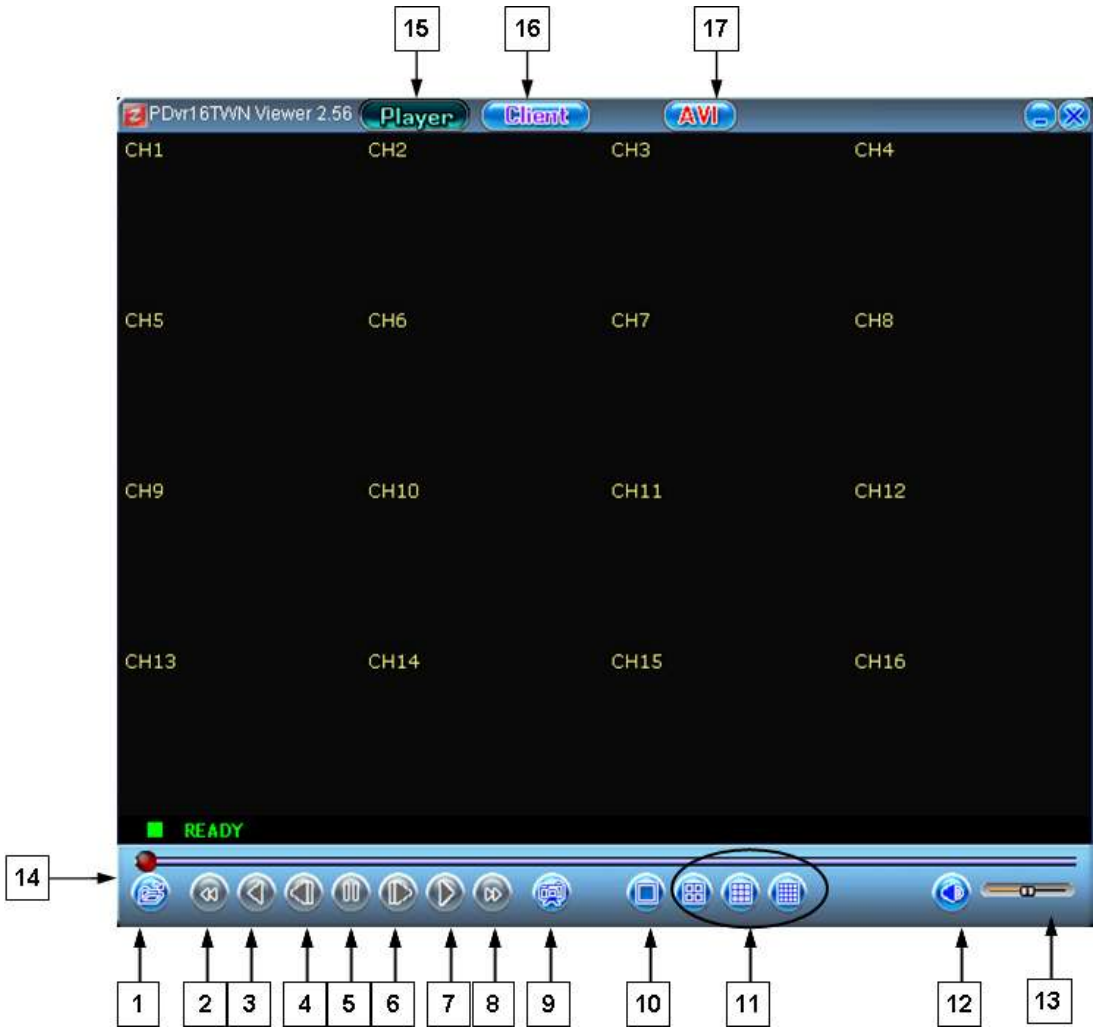


4.1. PC Viewer Operating buttons & Operating mode

No	Name	Function
1	Open	Open file. To retrieve the desired video data.
2	◀◀ Fast Backward	Press to play backward faster.
3	◀ Reverse	Press to playback backward
4	◀ I Previous frame	Button for one single frame backward
5	I I Pause	Pause the video playback
6	I ▶ Next Frame	Button for advancing one single frame
7	▶ Playback	Start video playback
8	▶▶ Fast forward	Press to play the recorded stream faster.
9	Still capture	click to snapshot the data as BMP file
10	■ Mode (Full)	To display each channel on full-screen

11	Mode (16ch) Mode (8ch) Mode (4ch)	To display 4/8/16channels on screen(16ch DVR) To display 4/8channels on screen(8ch DVR) To display 4channels on screen(4ch DVR)
12	Speaker	Set Speaker On / OFF.
13	Speaker Volume	To adjust the speaker's volume
14	Video	Video Play.
15	Player	Press to act at PC Viewer environment
16	Client	Press to act at PC Client environment
17	AVI	Click to create a new file to save AVI file in PC and start to convert the data into AVI file and save.

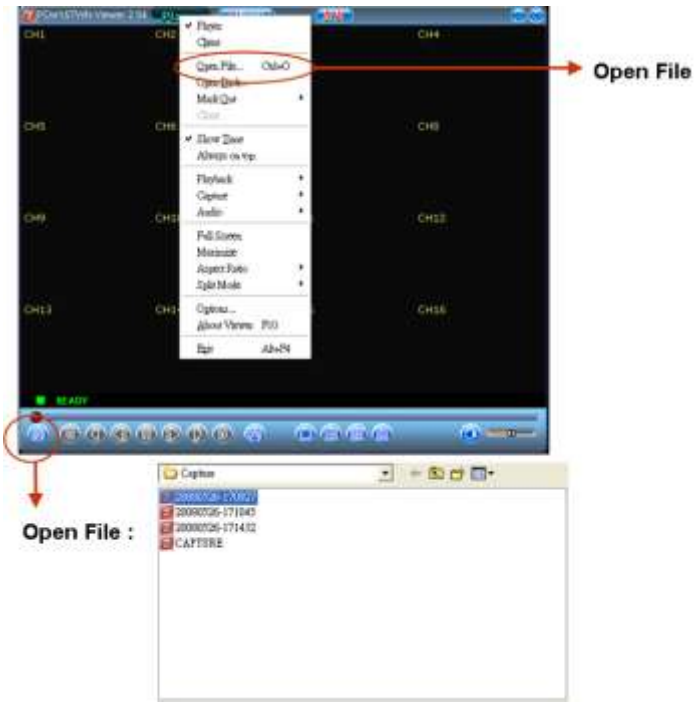
16ch DVR as an example:



4.2. Playback

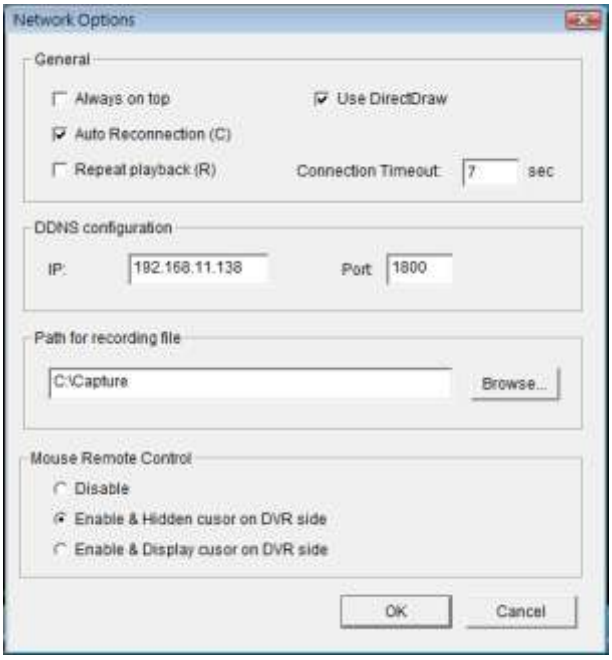
4.2.1. Open File

After local recording, you can simple to playback the recorded file by using “Open File” function as following.



The default path of local recording is C:\Capture.

Or you can change the path under hierarchical menu: “Option”

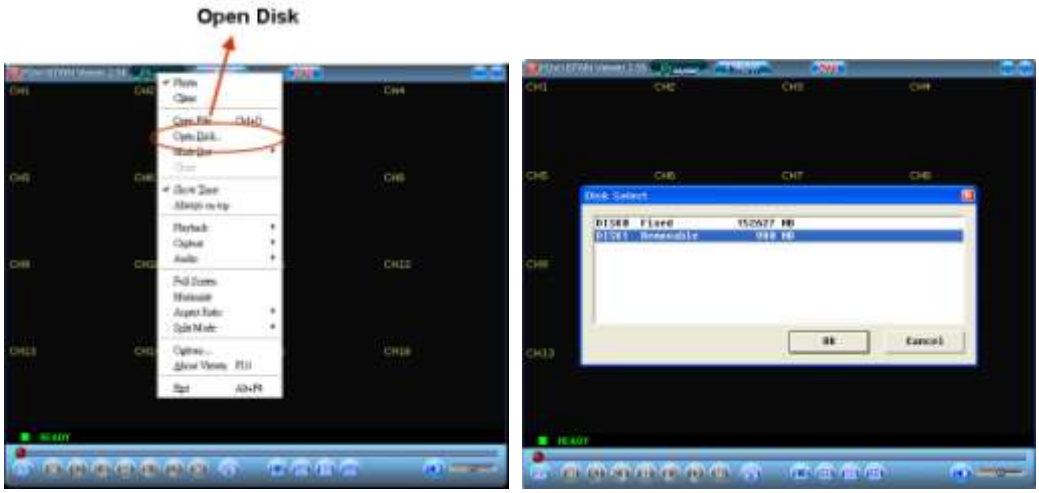


Mouse Remote Control: To enable/discard the mouse operating on DVR when you use mouse operation at Client site.

4.2.2. Open Disk

Plug the USB memory stick with data backup into PC.

Press the right button of mouse, and then choose “Open Disk” to select the USB disk. Then, press “OK” to start playback the data in USB (Removable Disk)



4.3. Capture

When you want to capture a period of recorded file, please use “Capture” function.

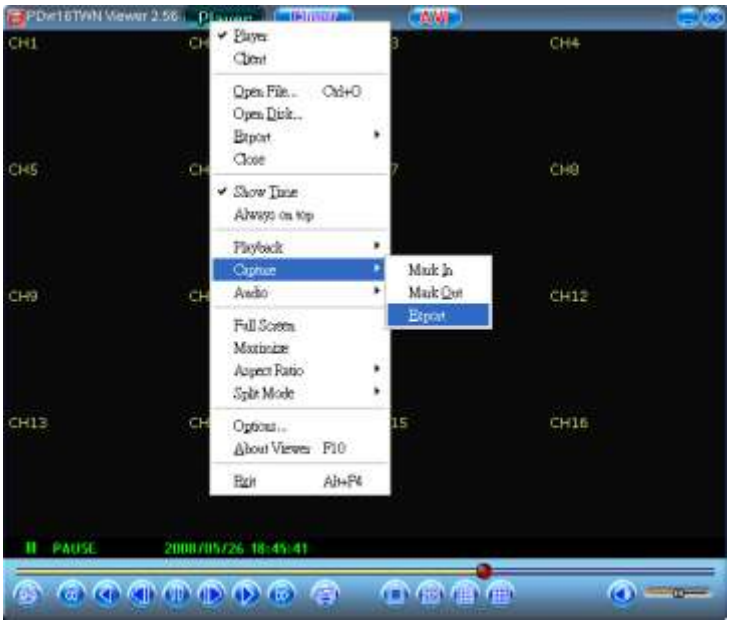
At first, choose the file by using “Open File”, and it will play automatically.

Press “**I I** Pause” before use “Capture”.

Use Mouse to choose the starting point, then press ”Mark In”

Use Mouse to choose the end point, then press ”Mark Out”

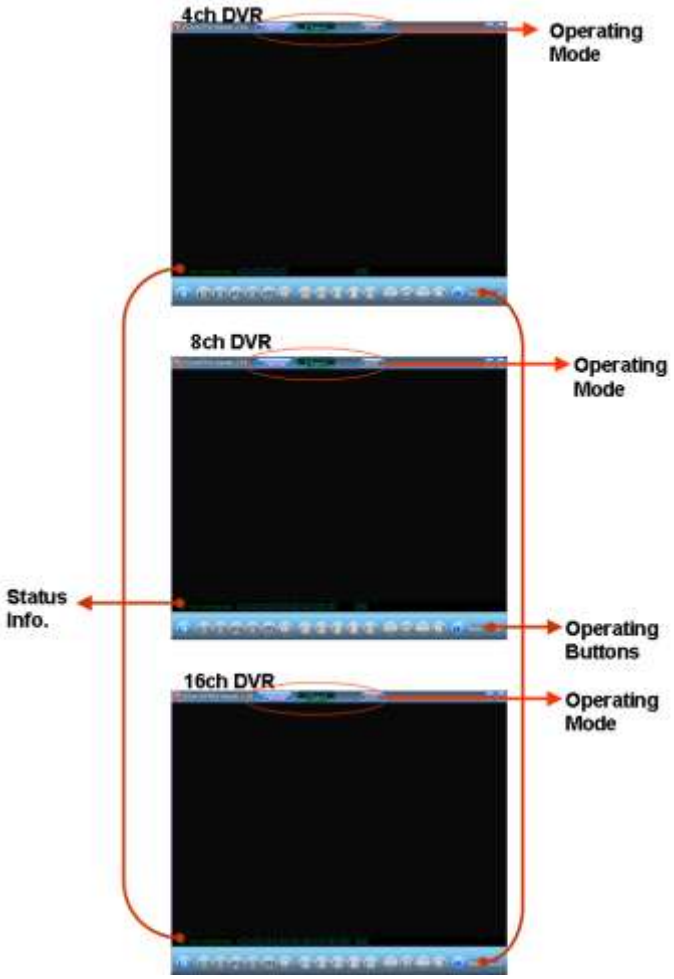
“Export”: to be a file as setting.



5. PC Client Operating Guide

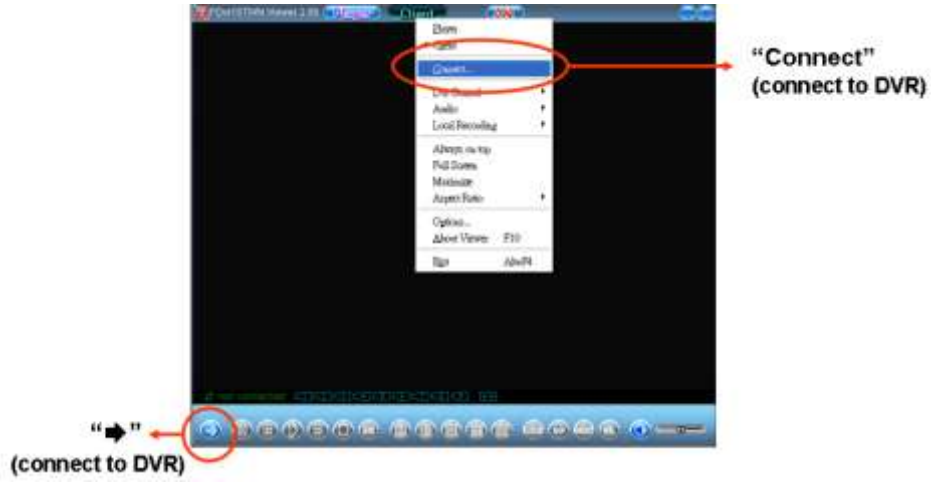
Press “Client” button on the top to switch PC Client mode for remote motoring.

The operating picture will change as following.



5.1. Connect PC Client to DVR

Press “Client” on the top and press left button of mouse, it shows a function table. Or simply press the “➡” button on the control bar beneath.



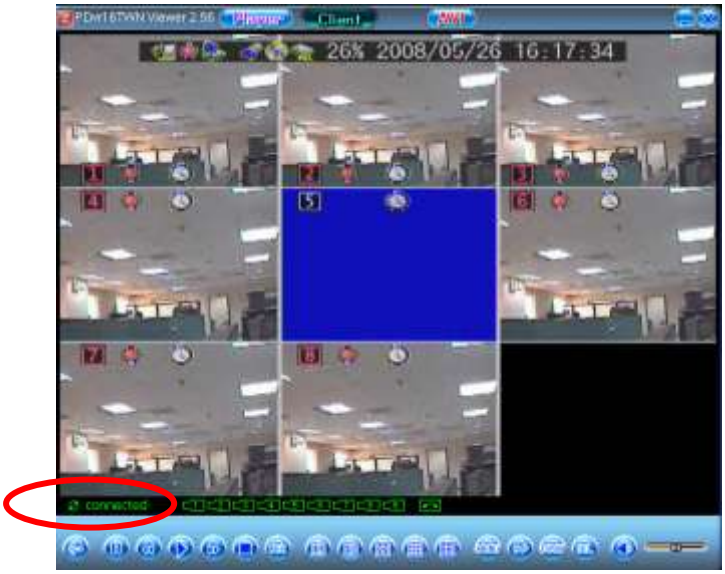
Select “Connect” by one click it will show a window “Login” to set the IP address and port of DVR.

IP Address / Port: The DVR IP address/Port is the IP address of the remote DVR that you can connect by static IP address or dynamic IP.

Password: The password is the same password that be used for formatting the DVR Hard Drive. The default is “123456”.

Then press “Login” to start to connect to DVR

“ connecting” : the PC client is trying to connect to DVR. After completed the PC and DVR connection, the control bar below will show ”**connected**” on status bar. If connection fails or disconnected will show **“ not connected”**



5.2. Status information

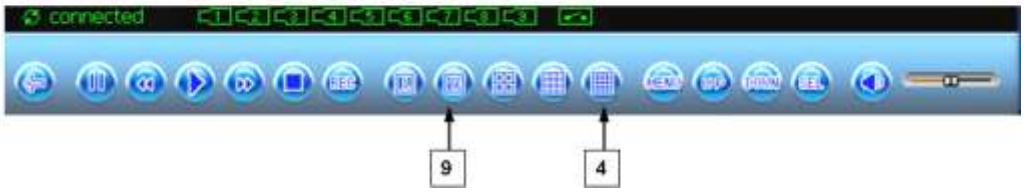
5.3. Control Icons

After connected, DVR can be controlled on remote site by control icons.

4ch DVR

8ch DVR

16ch DVR



No	Name	Function
1	➡/ ⬅	Connect/Disconnect the network within PC and DVR
2		Channel Mode: To display 4 split screen
3		Channel Mode: To display 9 split screen
4		Channel Mode: To display 16 split screen
5		Channel 1display at full screen (4ch DVR) To display Channel1, channel2….. channel4 by sequencing on screen (8ch DVR) To display Channel1, channel2….. channel8 by sequencing on screen (16ch DVR)
6		Channel 2 display at full screen (4ch DVR) To display Channe5, channel6….. channel8 by sequencing on screen (8ch DVR) To display Channel9, channel10….. channel16 by sequencing on screen (16ch DVR)
7		Channel 3 display at full screen (4ch DVR) 4 split view the Channel1 ~ channel4 (8ch DVR) 4 split view (ch1~ch4 → ch5~ch8 → ch9~ch12 →

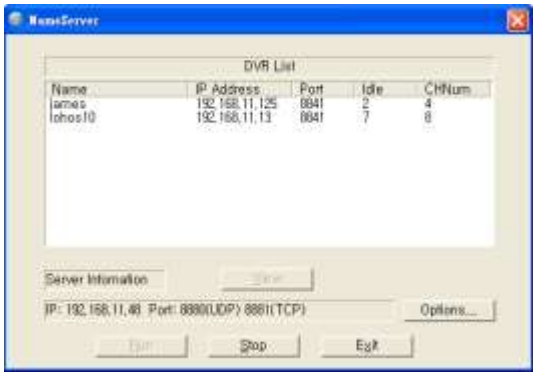
		ch13~ch16) display at full screen (16ch DVR)
8	4	Channel 4 display at full screen (4ch DVR) 4 split view the Channel5 ~ channel8 (8ch DVR) 9 split view (ch1~ch8 / ch9~ch16) display at full screen for 16ch DVR
9	9	To display Channel9, channel10….. channel16 by sequencing on screen (16ch DVR)
10	**MENU**	Enter menu or exit
11	**UP**	Moves up through the list of menus or enter Search Manu
12	**DOWN**	Moves down through the list of menus or starting auto rotation
13	**SELECT**	Use this button to change or confirm values on main menu or sub menu setting.
14	**Mute On/Off**	Set Speaker On / OFF.
15	**Volume**	To adjust the speaker's volume

6. Name Server

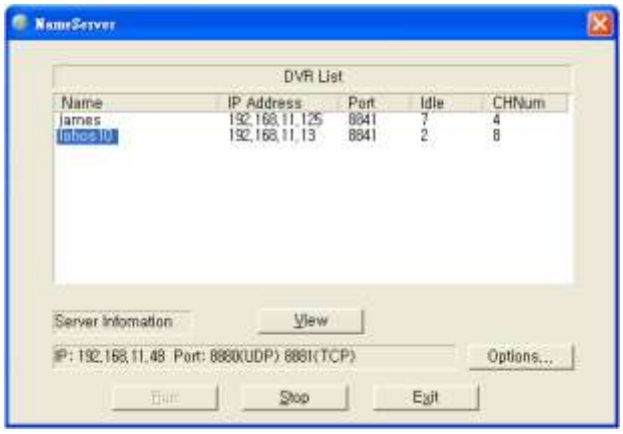
Name Server will list DVR which has connected to server. Input the sever information as shown at bottom into DVR name server setting

Name Server information

After completed all DVR Name sever setting, then press "Run" to execute "Name Server". It shows the DVR list as following.



It can be switched to PC Client mode for remote motoring just choose the idea DVR by double click.



7. PC Capturing

Before use PC Capturing, please make sure K-Lite Codec Pack has already existed. You can refer to http://www.free-codecs.com/download/K_Lite_Codec_Pack.htm

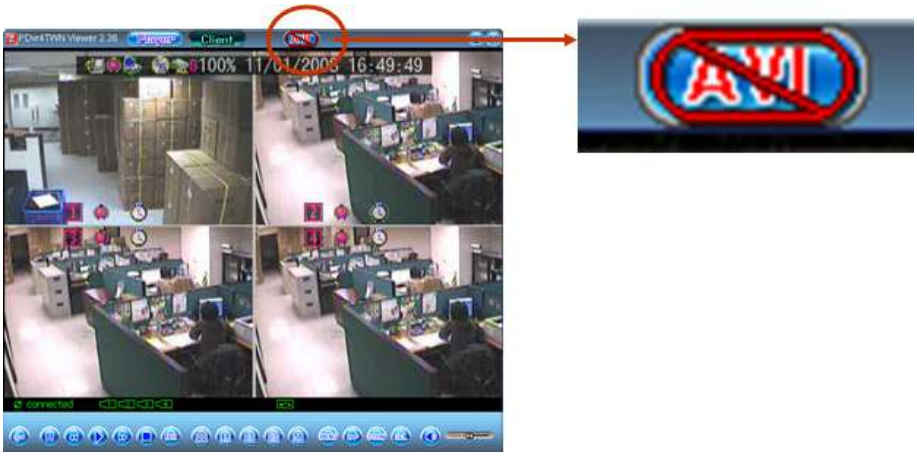
or Insert the CD that DVR to choose “Download K_lite_codec” as following to download the program and complete the installation.

Press “AVI” on the top to capture video that is synchronous with DVR and save as a file on PC.

Before PC starting to capture video from DVR, it asks will it lower down the internet speed.

Also, you can setup the directory for file saving.
Then, start to capture the video from DVR synchronously.

When the video capture processing, the icon “AVI” will change as following:



Press “AVI” again for stop/completing the video capture and save file. And icon “AVI” will back to normal.

8. Playback

To operate the Playback function by playback control buttons at the bottom of the screen.

1	❙❙ Pause	Pause the video playback
2	◀◀ Fast Backward	Press to play backward faster.
3	▶ Playback	Start video playback
4	▶▶ Fast forward	Press to play the recorded stream faster.
5	☐ Stop	Stop to playback or record
6	**REC**	Start to record/playback

Remote Surveillance through IE Browser

You can remote control the DVR unit through IE Browser
Before starting to IE Browser, please make sure Active-X has already existed.
You can install Active-X from CD as attached.

Direct X Setup	Direct X 安裝
Download Direct X	下載 Direct X
Codec Pack Setup	Codec Pack 安裝
Download K_lite_codec	下載 K_lite_codec
Active - X Setup	Active - X 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
PC Client/PC Viewer Setup	PC Client/PC Viewer 安裝
4CH Triplex DVR	4路三工數位錄放影機
8CH Triplex DVR	8路三工數位錄放影機
16CH Triplex DVR	16路三工數位錄放影機
User Guide	使用手冊
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Or start up IE Explorer with dedicated DVR IP address to URL, please refer to 7.3.6 IP Address Setup. Then press “this file” to download the Active-X from DVR.
(Be sure the Active-X has already uploaded to DVR, if DVR do not include Active-X, it will display an error message: “404 error file not found”).
About upload Active-X to DVR, please refer to 7.3.7 Server setup / Upload IE Active-X File for more details.

Active-X Control
(Please install this file if you can't see a black box below)
IP : 192.168.11.138 Port : 8841 Password :
Connect
Disconnect

The following is an example for setting:

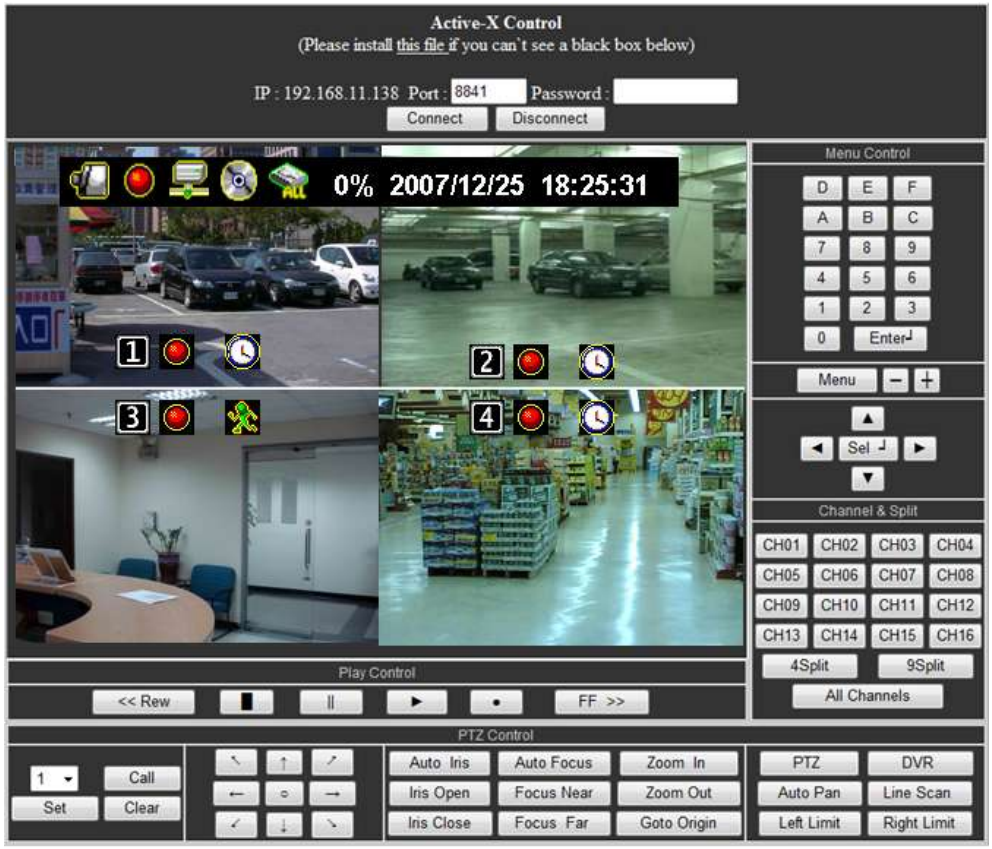
DVR IP address: 192.168.11.138 <IE Explorer / Web site>

Enter the “Port: 8841”, and “Password: xxxxxx”

Then, click “Connect”

There are some error messages will be shown as operating notice.

All the operating can be done by mouse and buttons,



Menu Control

Name	Function
0,1,2,----9,A,B,…F	Numbers (0,1,2~9) and characters (A,B,…,F) for inputs
ENTER	Input Confirm / change values on main /sub menu setting.

MENU	Enter menu or exit.
+	Moves right / Channel change
-	Moves left / Channel change
▲(UP)/ ▼(DOWN)/ ◀ (LEFT)/ ►(RIGHT)	Moves up/down/left/right through the list of menus. Or use it to select / change the DVR configuration values.
Select	Use this button to change or confirm values on main menu or sub menu setting.

Channel & Split

Name	Function
CH01, CH02 ...CH16	Channel Number (Channel 1 ~ 16)
4 Split	4 split view on the screen
9 Split	9 split view on the screen
All Channels	Display all channel 4/8/16 on the screen

Play Control

Name	Function
<< REW	Backward search through a time-shifted or recorded video.
■ STOP	Stop playback or backup.
II PAUSE	Pause recording or playback.
► PLAY	Start video playback.
• REC	Start or stop recording/backup.
FF >>	Forward search through a time-shifted or recorded video.

PTZ Control

Name	Function
1,2,----32	Preset Position (1,2~32)
Call	Call Preset Position
Set	Set Preset Position
Clear	Clear Preset Position
⇖ / ⇧ / ⇗	Move to Top Left / Move Top / Move to Top Right
⇦/ O / ⇨	Move Left / Stop / Move Right
⇙ / ⇩ / ⇘	Move to Bottom Left / Move Bottom / Move Bottom Right
Auto Iris	Set as Auto Iris

Iris Open	Tap the button to make a selection.
Iris Close	Tap the button to cancel a selection.
Auto Focus	Set as Auto Focus
Focus Near	Tap the button to focus near.
Focus Far	Tap the button to focus far.
Zoom In	Tap the button to zoom near
Zoom Out	Tap the button to zoom far.
Goto Origin	Go to original position
PTZ	Switch to PTZ control mode
DVR	Switch to DVR control mode
Auto Pan	Start / Stop Auto Pan Mode
Line Scan	Start / Stop Line Scan Mode
Left Limit	Set Left Limit of Line Scan
Right Limit	Set Right Limit of Line Scan

3G / SecuViewer

You can remote view the DVR unit through 3G application. Be sure that the following conditions are done before starting:

- Firmware of DVR must be V14.3.0 or above.
- Install the application software “SecuViewer” on mobile phone. It supports Java MIDP version 2.0 and above

After SecuViewer is well setup, it will show the picture on mobile phone as following….

1. DVR Connect

Press it to start connecting the DVR and mobile phone.

Note 1: *Some models of mobile phone will show a warning "Allow application to send to the Internet? " Please enter "YES".*

Note 2: *The connection fee depends on your ISP or system provider, please check it before use.*

After connected, it displays DVR operating screen for remote view / remote control.

Connecting

Connected

Keypad Usage (on mobile phone):

↑,2 : Up ↓,8 : Down

←,4 : Left →,6 : Right

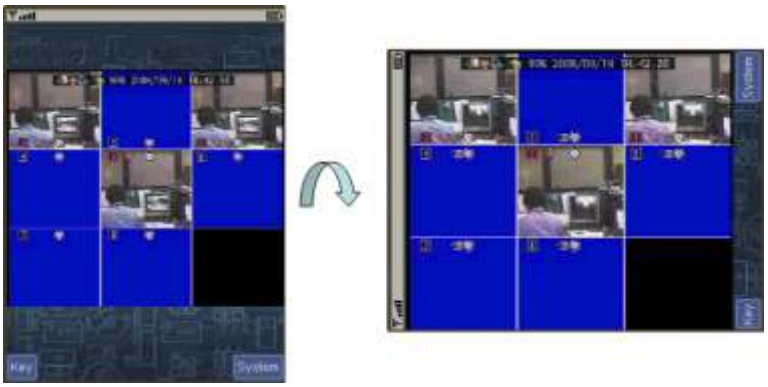
Enter,5: Confirm 0 : Cancel

『**System**』: Setup Keypad lock/unlock, Screen rotate, Disconnect and DVR info

Keypad Lock / Unlock the operating keys on mobile phone.

When the keypad is locked, it shows the icon: .

Screen Rotate: Rotate the canvas 90deg clockwise for a larger viewing size. Or use hotkey "#" to rotate screen

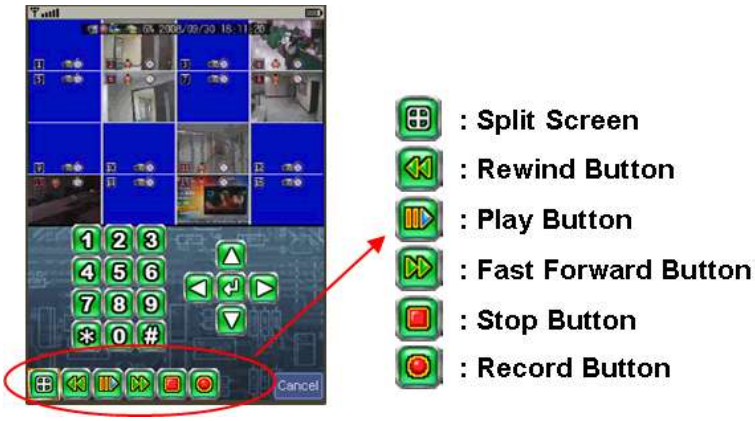


Disconnect: To disconnect the mobile phone and DVR.

DVR Info: DVR information includes DVR model, Firmware version, video type …..

『**Key**』- The mobile is operated by keypad, there are buttons for DVR remote control

『**Key**』- The mobile is operated by stylus, there are buttons for DVR remote control



Operating keys:

Number 0 - 9 : can be the number only or channel selection

『 * 』: Main menu

As connect to 4CH DVR :

1-4 => Switch Channel

0 => Quad Screen

As connect to 8CH DVR :

1-8 => Switch Channel

0 => 9-Split Screen

41 => 4-Split Screen 1

42 => 4-Split Screen 2

99 => 9-Split Screen

As connect to 16CH DVR :

1-16 => Switch Channel

41 => 4-Split Screen 1

42 => 4-Split Screen 2

43 => 4-Split Screen 3

44 => 4-Split Screen 4

81 91 => 9-Split Screen 1

82 92 => 9-Split Screen 2

99 => 16-Split Screen

2. Login Setup

Login DVR, please refer to previous chapter: 7.3 Network setup.

3. Language

Select the idea language for use.

4. Help

Provide online help and descript how to operate SecuViewer.

Introduction
SecuViewer is a monitoring program for handheld devices, dedicated for 404/408/416 DVR models. It supports Java MIDP version 2.0 and above, provides remote monitoring and DVR control functions. (Remote access permission is required on DVR)
DVR Connect
Login Setup
Language
Help
Exit
Prev
2/11 Page
Next

Main Menu
DVR Connect : Start connecting DVR. This option requires data transmit function and you may be charged for the data transmission fee.
Login Setup : Setup your DVR login address and authenticating information. Details are described in following pages.
Language : Select language for this program.
Help : Open this online help.
Exit : Quit SecuViewer.
DVR Connect
Login Setup
Language
Help
Exit
Prev
3/11 Page
Next

5. Exit

Press it and exit SecuViewer operation.